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February 7, 2012

Mr. Kenneth Bardo - LU-9J U.S. EPA Region V Corrective Action Section 77 West Jackson Boulevard Chicago, IL 60604-3507 **VIA FEDEX**

Re: Supplemental Groundwater Monitoring Program

4th Quarter 2011 Data Report

Solutia Inc., W. G. Krummrich Plant, Sauget, IL

Dear Mr. Bardo:

Enclosed please find the 4th Quarter 2011 Data Report for the Supplemental Groundwater Monitoring Program for Solutia Inc.'s W. G. Krummrich Plant, Sauget, IL. (The related Long-Term Monitoring Program report is being submitted separately.)

If you have any questions or comments regarding this report, please contact me at (314) 674-3312 or gmrina@solutia.com

Sincerely,

Gerald M. Rinaldi

Manager, Remediation Services

Enclosure

cc: Distribution List

DISTRIBUTION LIST

Supplemental Groundwater Monitoring Program 4th Quarter 2011 Data Report Solutia Inc., W. G. Krummrich Plant, Sauget, IL

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4TH QUARTER 2011 DATA REPORT

SUPPLEMENTAL GROUNDWATER MONITORING PROGRAM

SOLUTIA INC. W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS

Prepared for
Solutia Inc.
575 Maryville Centre Drive
St. Louis, Missouri 63141

February 2012



URS Corporation 1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63110 (314) 429-0100 Project: 21562703.00002

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1.0 INTRODUCTION

This report presents the results of the 4th Quarter 2011 (4Q11) sampling event performed north of the Solutia Inc. (Solutia) W.G. Krummrich (WGK) Facility located in Sauget, Illinois (Site). This sampling event was conducted as an extension to, and in accordance with procedures outlined in, the Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia 2009). The scope of this Supplemental Groundwater Monitoring Program (SGMP) was outlined in Solutia correspondence to the United Stated Environmental Protection Agency Region 5 (USEPA) dated August 16, 2011, and a subsequent August 18, 2011 letter from USEPA. As presented in the latter document, the objective of this work is to collect monitoring and measurement data necessary to verify that the migration of contaminated groundwater from WGK is stable. The Site location is presented in **Figure 1**.

Groundwater Sampling Location and Frequency – Quarterly sampling of the SGMP wells commenced 3Q11, with an expected duration of four quarters, through 2Q12. For the 4Q11 groundwater sampling event, groundwater samples were collected from piezometers GWE-1D, GWE-2D and GWE-3D, along with monitoring well GWE-5D, all located northwest of WGK in Sauget, Illinois. Monitoring well locations are presented in **Figure 2**.

Groundwater Sampling Parameters – During the 4Q11 groundwater sampling event, groundwater samples were analyzed for benzene, chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene using USEPA Method 8260B.

Samples for analysis of Monitored Natural Attenuation (MNA) parameters were collected from five SGMP wells. Evaluation of the types of active natural attenuation processes at the site is based on the following key geochemical parameters:

• Electron Donors: Organic Carbon (Total and Dissolved)

Electron Acceptors: Iron (Total and Dissolved)

Manganese (Total and Dissolved)

Nitrate Sulfate

Biodegradation Byproducts: Carbon Dioxide

Chloride Methane

Biodegradation Indicators: Alkalinity

2.0 FIELD PROCEDURES

URS Corporation (URS) conducted piezometer and monitoring well installation activities in November 2011, prior to 4Q11 groundwater sampling activities on December 5 and 6, 2011. Sampling activities were completed in accordance with procedures outlined in the Revised

LTMP Work Plan, including the collection of appropriate quality assurance and quality control (QA/QC) samples.

The following section summarizes field investigative procedures:

Monitoring Well Installation and Development – Two piezometers and a permanent monitoring well were installed at the northeast corner of Mississippi and Victory Avenues in East St. Louis, Illinois. A piezometer was screened in each of the shallow (GWE-5S) and middle (GWE-5M) hydrogeologic units (SHU and MHU, respectively), and the monitoring well (GWE-5D) was installed in the deep hydrogeologic unit (DHU) to facilitate quarterly collection of groundwater samples (**Figure 2**).

Installation was completed by Roberts Environmental Drilling Inc. (REDI) via hollow-stem auger and mud-rotary drilling techniques. The subsurface stratigraphy was logged by a qualified URS Corporation (URS) field scientist in accordance with the Unified Soil Classification System (USCS) protocols and URS procedures. The field scientist noted soil attributes such as color, particle size, consistency, moisture content, structure, odor (if obvious) and organic content (if visible). A soil boring log is included in **Appendix A**.

The piezometers (GWE-5S and GWE-5M) were constructed using polyvinyl chloride (PVC) riser pipe and 10-foot long screens with 0.01 inch openings. Monitoring well GWE-5D was constructed using stainless steel riser pipe and a 5-foot long screen with 0.01 inch openings.

Upon completion of each borehole, the screen and riser pipe were lowered into the boring through the augers. Filter sand was then poured into the borehole through the augers and allowed to settle, followed by bentonite chips filling the remaining annular space to approximately 1.5 feet below ground surface. Once the grout was set the well was completed with a locking flush mount protector. Concrete pads were constructed around each well protector. Wellheads were secured using lockable-expandable caps.

The monitoring well and piezometers were constructed in accordance with the URS SOP on monitoring well installation. In addition to a monitoring well boring log, associated piezometer/well construction diagrams are included in **Appendix A**.

Following the installation, the monitoring well and piezometers were developed in accordance with the URS SOP on monitoring well development. Development was performed by REDI, under the supervision of URS, using a submersible air-lift pump until a minimum of five well volumes were removed and fine-grained materials were removed.

Groundwater Level Measurements – URS personnel used an electronic oil/water interface probe to measure depth to static groundwater levels and if present, the thickness of non-aqueous phase liquid (NAPL), if present, to 0.01 feet. As part of the LTMP, depth to groundwater measurements were collected on November 10, 2011 from accessible existing

WGK monitoring wells (i.e., BSA-, CPA-, GM-, K-, PS-MW- and PMA-series) and piezometer clusters (installed for the Sauget Area 2 RI/FS and WGK CA-750 Environmental Indicator projects) specified in the Revised LTMP Work Plan (Solutia 2009) (**Figure 3**). This group of wells and piezometers includes those that compose the SGMP. Depth to groundwater measurements were collected from piezometers GWE-5S and GWE-5M, along with monitoring well GWE-5D on December 21, 2011 following piezometer/well installation. NAPL was not detected within any of the four SGMP monitoring wells.

Well gauging information for the 4Q11 event is presented in **Table 1**. As the middle and deep hydrogeologic units are the primary migration pathway for constituents present in groundwater at, and in the vicinity of, the WGK Facility, a groundwater potentiometric surface map based on water level data from wells screened in the Middle Hydrogeologic Unit (MHU) and Deep Hydrogeologic Unit (DHU) is presented as **Figure 3**.

Groundwater Sampling – Low-flow sampling techniques were used for groundwater sample collection. At each monitoring well, disposable, low-density polyethylene tubing was attached to a submersible pump, which was then lowered into the well to the middle of the screened interval. Monitoring wells were purged at a rate of 150-400 mL/minute to minimize drawdown. If significant drawdown occurred, flow rates were reduced.

Drawdown was measured periodically throughout purging to ensure that it did not exceed 25% of the distance between the pump intake and the top of the screen. Once the flow rate and drawdown were stable, field measurements were collected approximately every three to five minutes. Purging of a well was considered complete when the following water quality parameters remained stable over three consecutive flow-through cell volumes:

Parameter	Stabilization Guidelines				
Dissolved Oxygen (DO)	+/- 10% or +/-0.2 mg/L, whichever is greatest				
Oxidation-Reduction Potential (ORP)	+/- 20 mV				
pН	+/- 0.2 units				
Specific Conductivity	+/- 3%				

Sampling commenced upon completion of purging. Prior to sample collection, the flow-through cell was bypassed to allow for collection of uncompromised groundwater. Samples were collected at a flow rate less than or equal to the rate at which stabilization was achieved. Sample containers were filled based on laboratory analysis to be performed, in the following order:

- Volatile Organic Compounds (VOCs)
- Gas Sensitive Parameters (e.g., methane, carbon dioxide)
- General Chemistry (i.e., alkalinity, chloride, total and dissolved iron, total and dissolved manganese, nitrate, sulfate, and total and dissolved organic carbon)
- Field Parameters (i.e., dissolved oxygen, ferrous iron, and oxidation-reduction potential).

Samples collected for ferrous iron, dissolved iron and dissolved manganese analysis were filtered in the field using in-line 0.2 micron disposable filters, represented by a notation of "F (0.2)" in the sample nomenclature.

Quality assurance/quality control (QA/QC) samples consisting of analytical duplicates (AD) and equipment blanks (EB) were collected at a rate of 10% and matrix spike/matrix spike duplicates (MS/MSD) were collected at a rate of 5%. In addition, trip blanks accompanied each shipment containing samples for VOC analysis.

Each investigative or QC sample was labeled immediately following collection. Each sample identification number consisted of the following nomenclature "Well ID-MW#-MMYY-QAC" where:

- Well ID includes "GWE-" or "PS-", followed by MW-#D, denoting DHU Monitoring Well Number
- MMYY Month and year of sampling quarter, e.g.: Fourth quarter (November) 2011, 1111
- QAC denotes QA/QC sample
 - AD analytical duplicate
 - o **EB** equipment blank
 - MS or MSD Matrix Spike or Matrix Spike Duplicate

Upon collection and labeling, sample containers were immediately placed inside an iced cooler, packed in such a way as to help prevent breakage and maintain inside temperature at or below approximately 4°C. Field personnel recorded the project identification and number, sample description/location, required analysis, date and time of sample collection, type and matrix of sample, number of sample containers, preservative used (if applicable), analysis requested/comments, and sampler signature/date/time, with permanent ink on the chain-of-custody (COC). Prior to shipment, coolers were sealed between the lid and sides of the cooler with a custody seal, and then shipped to TestAmerica in Savannah, Georgia by means of an overnight delivery service. Field sampling data sheets are included in **Appendix B**, while copies of COCs are included in **Appendix C**.

Field personnel and equipment were decontaminated according to procedures specified in the Revised LTMP Work Plan to ensure the health and safety of those present, maintain sample integrity, and minimize movement of contamination between the work area and off-site locations. Equipment used on-site was decontaminated prior to beginning work, between sampling locations and/or uses, and prior to demobilizing from the site. Non-disposable purging and sampling equipment was decontaminated between each sample acquisition by washing with an Alconox® or equivalent detergent wash, a potable water rinse, and a distilled water rinse. Personnel and small equipment decontamination was performed at the sample locations. Disposable sampling equipment, such as gloves were collected and bagged on a daily basis

and managed in accordance with Solutia procedures. Purge water was containerized and handled per Solutia procedures.

3.0 LABORATORY PROCEDURES

Samples were analyzed by TestAmerica for VOCs and MNA parameters, using the following methodologies:

- VOCs, via USEPA SW-846 Method 8260B (dichlorobenzenes were quantitated using Method 8260B because of potential volatilization losses associated with Method 8270)
- MNA parameters: alkalinity (310.1), carbon dioxide (310.1), chloride (325.2), total and dissolved iron (6010B), total and dissolved manganese (6010B), dissolved gases (RSK 175), nitrate (353.2), sulfate (375.4), and total and dissolved organic carbon (415.1).

Laboratory results were provided in electronic and hard copy formats.

4.0 QUALITY ASSURANCE

Analytical data were reviewed for quality and completeness, as described in the Revised Long Term Monitoring Program Work Plan (Solutia 2009). Data qualifiers were added, as appropriate, and are included on the data tables and the laboratory result pages. The Quality Assurance report is included as **Appendix D**. The laboratory report along with data review and validation reports are included in **Appendix E**.

A total of 7 groundwater samples (four investigative) samples, one field duplicate, one MS/MSD pair and one equipment blank) were prepared and analyzed by TestAmerica Savannah for combinations of VOCs, dissolved gases, metals, and general chemistry. In addition, three trip blanks were included in the coolers that contained samples for VOC analysis and were analyzed for VOCs. The results for the various analyses were submitted as sample delivery groups (SDGs) KPS069 and KPS070. The samples contained in SDGs KPS069 and KPS070 are listed below:

KPS069	KPS070
GWE-5D-1211	GWE-1D-1211
4Q11 SUPP Trip Blank #1	GWE-3D-1211
	GWE-3D-1211-AD
	GWE-2D-1211
	GWE-2D-1211-EB
	4Q11 SUPP Trip Blank #2
	4Q11 SUPP Trip Blank #3

Evaluation of the groundwater analytical data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods

Data Review (USEPA 2008), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Data Review (USEPA 2010), and the Revised Long-Term Monitoring Program Work Plan (Solutia 2009).

Based on the above mentioned criteria, groundwater results reported for the analyses performed were accepted for their intended use. Acceptable levels of accuracy and precision, based on MS/MSD, laboratory control sample (LCS), surrogate and field duplicate data were achieved for this SDG to meet the project objectives. Completeness which is defined to be the percentage of analytical results which are judged to be valid, including estimated detect/non-detect (J/UJ) data was 100 percent.

5.0 OBSERVATIONS

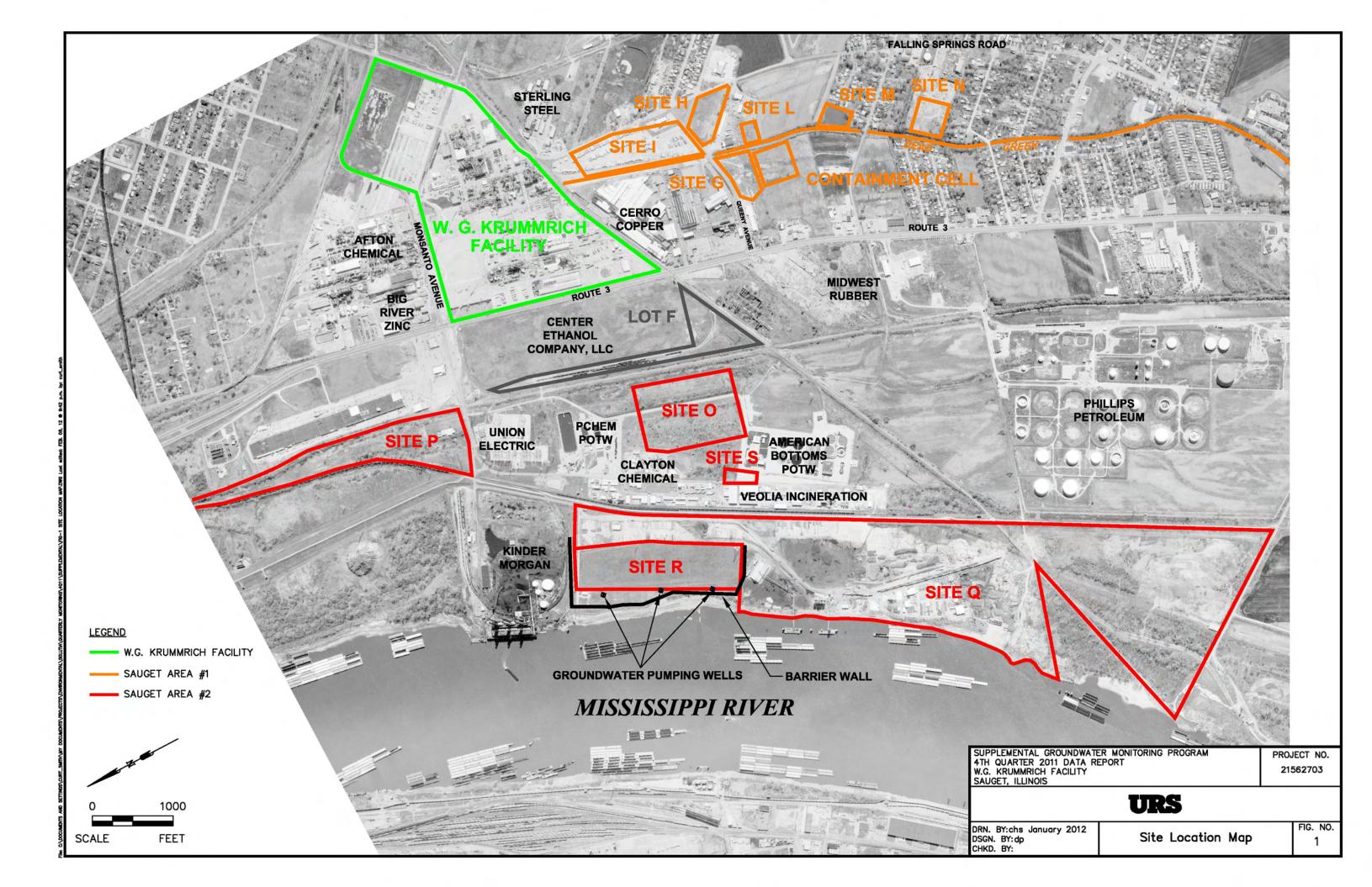
Groundwater analytical detections and MNA results for the 4Q11 SGMP sampling event are presented in **Tables 2** and **3**, respectively. Benzene, chlorobenzene,1,2-dichlorobenzene and 1,4, dichlorobenzene were reported in samples collected from all three piezometers GWE-1D, -2D, -3D and monitoring well GWE-5D during this sampling event. In addition, 1,3-dichlorobenzene was reported in the sample collected from GWE-5D. Total chlorobenzenes (i.e., the sum of chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene) were detected at concentrations ranging from 16.6 μ g/L (GWE-1D) to 1,730.9 μ g/L (GWE-5D). **Figure 4** displays concentrations of benzene and total chlorobenzenes from the 4Q11 sampling event.

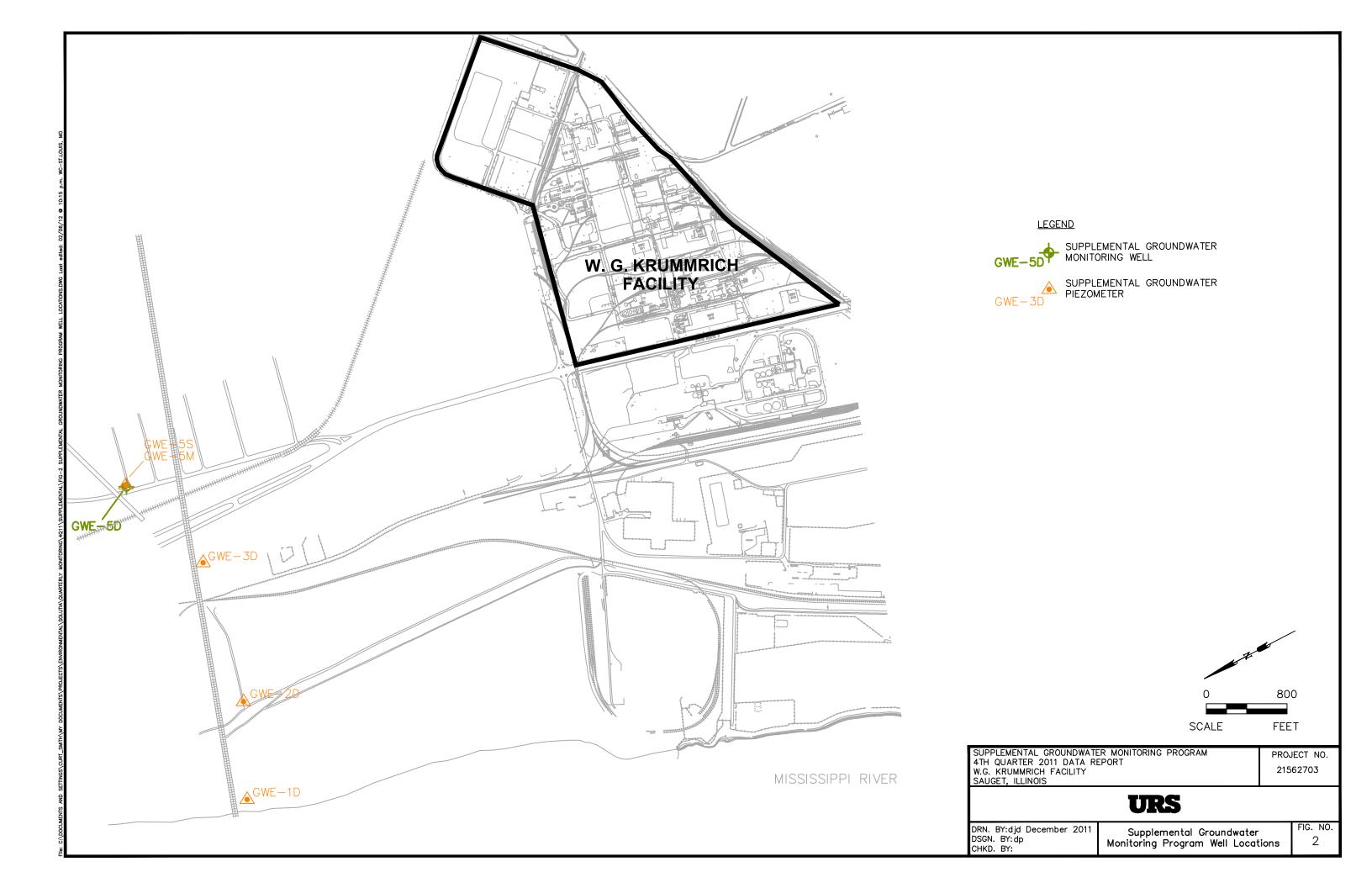
In accordance with the scope outlined for the SGMP, for subsequent groundwater sampling events (i.e. 1st Quarter 2012 (1Q12) and 2nd Quarter 2012 (2Q12)), groundwater samples will be collected from piezometers GWE-1D, -2D, -3D and monitoring well GWE-5D.

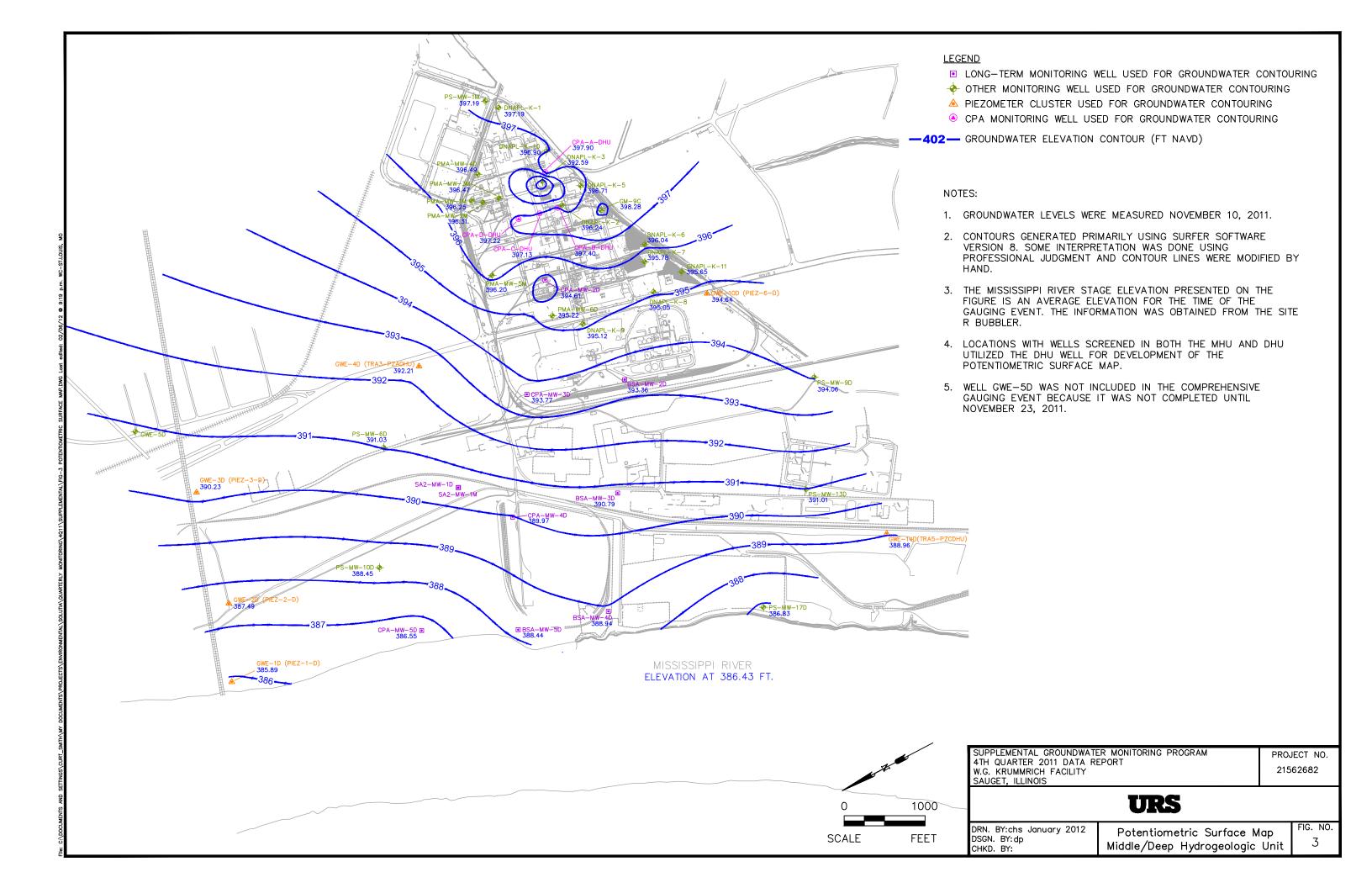
6.0 REFERENCES

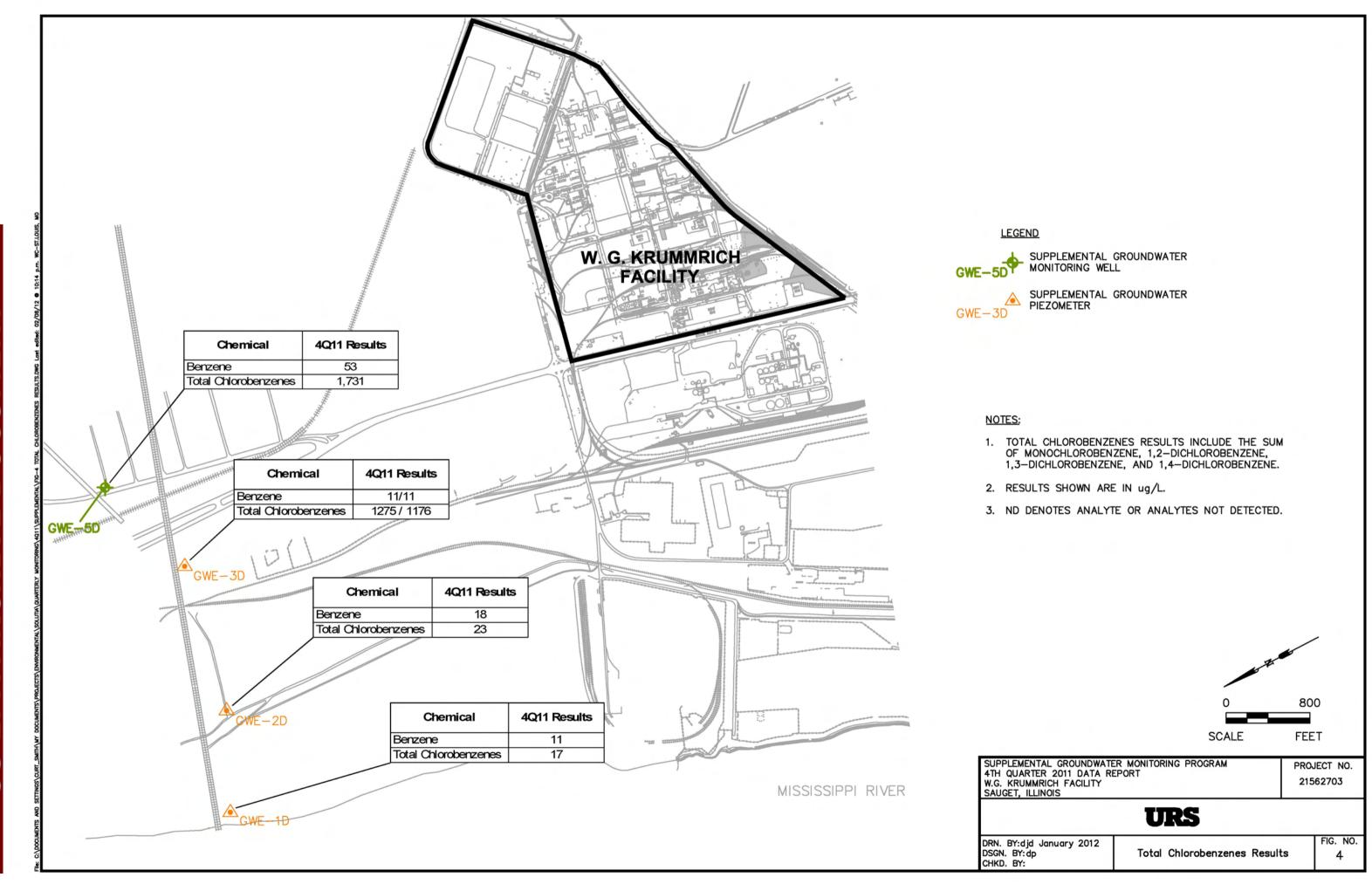
- Solutia Inc, 2009. Revised Long Term Monitoring Program Work Plan, Solutia Inc., W.G. Krummrich Facility, Sauget, Illinois, May 2009.
- Solutia Inc, 2011. Supplemental Groundwater Monitoring Program, Solutia Inc., W.G. Krummrich Facility, Sauget, Illinois, August 2011.
- USEPA, 2008. Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review
- USEPA, 2010. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.

Figures









Tables

Table 1
Monitoring Well Gauging Information

					Construct	ion Details			No	vember 10, 2	011
Well ID	Northing	Easting	Ground Elevation (feet)	Casing Elevation (feet)	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Depth to Water (feet btoc)	NAPL Thickness (feet)	Water Elevation (feet)
Shallow Hydrogeo	logic Unit (SHU	395-380 feet N	AVD 88)								
BSA-MW-1S	702077.000	2294393.200	409.49	412.31	19.68	24.68	389.81	384.81	16.97		395.34
GWE-1S	708917.243	2292547.419	413.83	416.54	13	23	403.54	393.54	dry		dry
GWE-2S	708489.510	2293419.566	417.45	417.10	17	27	400.10	390.10	26.32		390.78
GWE-3S	708190.663	2294821.811	415.03	417.01	25	35	392.01	382.01	37.64		379.37
GWE-4S	705014.086	2294892.173	406.16	405.75	20	30	385.75	375.75	13.48		392.27
GWE-5S*	708480.594	2295834.939	408.47	408.05	17.91	27.91	390.56	380.56	17.59		390.46
PMA-MW-1S	703478.700	2296389.400	410.30	410.06	20.18	25.18	390.12	385.12	12.76		397.30
PMA-MW-2S	703363.700	2296305.800	412.27	411.66	22.94	27.94	389.33	384.33	15.35		396.31
PMA-MW-3S	703165.200	2296261.000	412.37	412.06	22.71	27.71	389.66	384.66	15.54		396.52
PMA-MW-4S	703252.900	2296642.300	411.09	410.43	20.99	25.99	390.10	385.10	13.65		396.78
SA2-MW-1S	705296.162	2293339.110	403.43	406.01	13.55	23.55	392.46	382.46	23.19		382.82
Middle Hydrogeolo	gic Unit (MHU	380-350 feet NA	VD 88)								
GWE-1M	708917.243	2292547.419	413.83	416.26	69.40	79.40	346.86	336.86	30.01		NM
GWE-2M	708489.593	2293419.380	417.82	417.57	67.80	77.80	349.77	339.77	29.64		387.93
GWE-3M	708190.663	2294821.811	415.03	417.84	68.30	78.30	349.54	339.54	27.58		390.26
GWE-4M	705019.113	2294893.322	406.11	405.86	43.76	49.76	362.10	356.10	13.48		392.38
GWE-5M*	708492.425	2295838.821	408.59	408.20	48.10	58.10	360.49	350.49	17.62		390.58
PMA-MW-1M	703480.400	2296384.600	410.32	410.08	54.54	59.54	355.78	350.78	13.83		396.25
PMA-MW-2M	703369.400	2296306.200	412.26	411.93	56.87	61.87	355.39	350.39	15.62		396.31
PMA-MW-3M	703161.200	2296259.500	412.36	412.10	57.07	62.07	355.29	350.29	15.63		396.47
PMA-MW-5M	703692.400	2295455.200	411.27	410.97	52.17	57.17	359.10	354.10	14.77		396.20
PS-MW-1M	702746.100	2297398.200	409.37	412.59	37.78	42.78	371.59	366.59	15.40		397.19
SA2-MW-1M	705301.561	2293339.773	403.55	406.13	53.26	63.26	352.87	342.87	23.60		382.53
Deep Hydrogeolog	ic Unit (DHU 35	0 feet NAVD 88	- Bedrock)								
BSA-MW-2D	702857.300	2293542.900	412.00	415.13	68.92	73.92	343.08	338.08	21.77		393.36
BSA-MW-3D	703598.900	2292346.700	412.91	415.74	107.02	112.02	305.89	300.89	24.95		390.79
BSA-MW-4D	704395.700	2291107.100	425.00	424.69	118.54	123.54	306.46	301.46	35.75		388.94
BSA-MW-5D	705432.969	2291536.060	420.80	420.49	115.85	120.85	304.95	299.95	32.05		388.44
CPA-MW-1D	702995.300	2296036.400	408.62	408.32	66.12	71.12	342.50	337.50	15.69		392.63
CPA-MW-2D	703140.800	2295097.700	408.51	408.20	99.96	104.96	308.55	303.55	13.59		394.61
CPA-MW-3D	704011.185	2293955.106	410.87	410.67	108.20	113.20	302.67	297.67	16.90		393.77
CPA-MW-4D	704884.000	2292700.900	421.57	421.20	116.44	121.44	305.13	300.13	31.23		389.97
CPA-MW-5D	706543.600	2291992.000	411.03	413.15	107.63	112.63	303.40	298.40	26.60		386.55

W.G. Krummrich Facility - Sauget, Illinois Supplemental Groundwater Monitoring Program

Table 1
Monitoring Well Gauging Information

			No	November 10, 2011							
Well ID	Northing	Easting	Ground Elevation (feet)	Casing Elevation (feet)	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Depth to Water (feet btoc)	NAPL Thickness (feet)	Water Elevation (feet)
Deep Hydrogeologic	c Unit (DHU 35	0 feet NAVD 88	- Bedrock) (continued)							
DNAPL-K-1	702637.276	2297248.692	413.07	415.56	108.20	123.20	304.87	289.87	18.37		397.19
DNAPL-K-2	702516.436	2295812.713	407.94	407.72	97.63	112.63	310.31	295.31	11.48		396.24
DNAPL-K-3	702591.747	2296185.854	412.13	411.91	104.80	119.80	307.33	292.33	19.32		392.59
DNAPL-K-4	702975.946	2296048.688	409.48	409.15	102.55	117.55	306.93	291.93	16.54		392.61
DNAPL-K-5	702200.888	2295917.619	412.27	411.91	102.15	117.15	310.12	295.12	15.20		396.71
DNAPL-K-6	701842.363	2294900.821	410.43	410.09	102.47	117.47	307.96	292.96	14.05		396.04
DNAPL-K-7	701947.284	2294707.896	408.32	407.72	100.40	115.40	307.92	292.92	11.94		395.78
DNAPL-K-8	702026.795	2294328.368	408.56	411.38	102.65	117.65	305.91	290.91	16.33		395.05
DNAPL-K-9	702986.659	2294396.229	406.45	405.97	97.42	112.42	309.03	294.03	10.85		395.12
DNAPL-K-10	702372.180	2296495.020	413.50	413.25	105.43	120.43	308.07	293.07	16.35		396.90
DNAPL-K-11	701602.110	2294384.230	412.20	411.78	105.46	120.46	306.74	291.74	16.13		395.65
GM-9C	702123.000	2295527.000	409.54	411.21	88.00	108.00	321.54	301.54	12.93		398.28
GWE-1D	708917.2434	2292547.4187	412.80	415.60	117.00	127.00	295.80	285.80	29.71		385.89
GWE-2D	708489.7996	2293419.3725	417.45	417.14	127.00	137.00	290.45	280.45	29.65		387.49
GWE-3D	708190.663	2294821.811	415.03	417.66	104.60	114.60	313.06	303.06	27.43		390.23
GWE-4D	705022.782	2294894.495	406.05	405.74	74.00	80.00	332.05	326.05	13.53		392.21
GWE-5D*	708503.984	2295842.175	408.79	408.38	100.43	105.43	308.36	303.36	18.43		389.95
GWE-10D	701453.118	2293997.843	410.15	412.87	102.50	112.50	307.65	297.65	18.23		394.64
GWE-14D	700852.103	2290273.514	420.47	422.90	90.00	96.00	330.47	324.47	33.94		388.96
PMA-MW-4D	703248.900	2296639.200	411.22	410.88	68.84	73.84	342.38	337.38	14.39		396.49
PMA-MW-6D	703270.300	2294662.400	407.63	407.32	96.49	101.49	311.14	306.14	12.10		395.22
PS-MW-6	705885.100	2294213.500	404.11	406.63	102.32	107.32	304.31	299.31	15.60		391.03
PS-MW-9D	700773.800	2292454.500	403.92	403.52	100.40	105.40	303.52	298.52	9.46		394.06
PS-MW-10	706634.200	2292926.700	409.63	412.18	103.78	108.78	308.40	303.40	23.73		388.45
PS-MW-13D	701516.900	2291281.000	405.80	405.53	106.08	111.08	299.72	294.72	14.52		391.01
PS-MW-17D	702674.300	2290245.400	420.22	423.26	121.25	126.25	298.97	293.97	36.43		386.83
SA2-MW-1D	705306.772	2293340.413	403.79	406.03	105.01	115.01	301.02	291.02	23.86		382.17

Notes:

bgs - below ground surface

btoc - Below top of casing

Coordinates--State Plane 1983, Illinois West, NAD 1983.

Elevation based upon North American Vertical Datum (NAVD) 88 datum

W.G. Krummrich Facility - Sauget, Illinois Supplemental Groundwater Monitoring Program

^{* -} Measured on 12/2/11

Table 2
Groundwater Analytical Results

			V	OC (μg/L)		
Sample ID	Sample Date	Benzene	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
GWE-1D-1211	12/5/2011	11	11	1.6	<1	4
GWE-2D-1211	12/6/2011	18	19	1.2	<1	2.9
GWE-3D-1211	12/6/2011	11	1200	11	<10	64
GWE-3D-1211-AD	12/6/2011	11	1100	11	<10	65
GWE-5D-1211	12/5/2011	53	1600 D	17	3.9	110

Notes:

μg/L = micrograms per liter

< = Result is non-detect, less than the reporting limit given.

BOLD indicates concentration greater than reporting limit.

AD = Analytical Duplicate

D = compound analyzed at a dilution

Table 3
Monitored Natural Attenuation Results Summary

Sample ID	Sample Date	Alkalinity (mg/L)	Carbon Dioxide (mg/L)	Chloride (mg/L)	Dissolved Oxygen (mg/L)	Ethane (ug/L)	Ethylene (ug/L)	Ferrous Iron (mg/L)	Iron (mg/L)	Iron, Dissolved (mg/L)	Manganese (mg/L)	Manganese, Dissolved (mg/L)	Methane (ug/L)	Nitrogen, Nitrate (mg/L)	Sulfate as SO4 (mg/L)	Dissolved Organic Carbon (mg/L)	Total Organic Carbon (mg/L)	ОЯР (mV)
GWE-1D-1211	12/5/2011	460	28	70	0.09	<1.1	<1		19		0.53		5.6	0.064	300		2.5	143.96
GWE-1D-F(0.2)-1211	12/5/2011							>3.3		18		0.52				2.5		
GWE-2D-1211	12/6/2011	500	25	95	0.28	<1.1	<1		18		0.41		1.1	< 0.05	310		2.8	171.35
GWE-2D-F(0.2)-1211	12/6/2011							>3.3		17		0.39				3		
GWE-3D-1211	12/6/2011	410	21	59	-0.06	<1.1	<1		12		0.36		16	< 0.05	170		2.8	176.78
GWE-3D-F(0.2)-1211	12/6/2011							>3.3		13		0.38				3.1		
GWE-5D-1211	12/5/2011	400	33	89	-0.21	<1.1	<1		13		0.39		58	<0.05	280		16	75.0
GWE-5D-F(0.2)-1211	12/5/2011							>3.3		14		0.42				16		

Notoe:

DO and ORP were measured in the field using an In-Situ Troll 9500 equipped with a flow-thru cell. Values presented represent final measurements before sampling

Ferrous Iron readings were measured in the field using a LaMotte Colorimeter after the groundwater passed through a $0.2~\mu m$ filter

F(0.2) = Sample was filtered utilizing a 0.2 μm filter during sample collection

mg/L = milligrams per liter

mV = millivolts

ug/L = micrograms per liter

< = Result is non-detect, less than the reporting limit given

A blank space indicates sample not analyzed for select analyte

Appendix A

Soil Boring Log and Piezometer/Monitoring Well Construction Diagrams

to	Piezometer/Well			WE	LOG OF BORING AN LL CONSTRUCTION D GWE-5	
In fee	Construction	n		Completion	Coordi	
Depth In feet	GWE-5 GWE-5 C	GWE-5 D Oquid	nscs	Date: 11/23/11 Casing Elevation: 408.05 (S), 408. Ground Elevation: 408.47 (S), 408	20 (M), 408.38 (D) SORIPTION Nort East	hing: N/A sting: N/A NOTES
	4 44 44 44 44	4 27 27 27 27 27 27 27	4	TOPSOIL	SOME HON	NOTES
		**************************************	TOPSOIL			
5-	\$2222225222222222525 \$322222222222222222		ML	SILT (ML), soft, dry, brown		
10-		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SM	Silty SAND (SM), dry, brown		
20 2 213927/03:00004 (SOLOTIA 22-12):5453 0RSS1 LEV.GD) 2/2/1/2		222222222222222222222222222222222222222	SP	SAND (SP), brown, well graded find	Ţ.	
Comp		21562703			Water Depth:18	
Completion Depth: 107 ft bgs Water Depth: 25 ft., After ATD Water Depth: 18 ft., After 28 days Water Depth: 18 ft., After 2						
Drilli Drilli	ng method:]	ISA, Mud			
Logge	ed by:	Palmer/H	art	URS		USC based on field
J				OI/O		visual observations

	₩ Piezometer/Well			LOG OF BORING AND WELL CONSTRUCTION DETAIL
feet	Piezometer/Well Construction			GWE-5
Depth In feet	GWE-5 GWE-5 GWE-5 D		nscs	Completion Date: 11/23/11 Casing Elevation: 408.05 (S), 408.20 (M), 408.38 (D) Ground Elevation: 408.47 (S), 408.59 (M), 408.79 (D) DESCRIPTION Coordinates Northing: N/A Easting: N/A
35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Symbol	SD SP	Brown to gray, well graded, medium to coarse
(7				
	1	ft bgs		Water Depth:25 ft., AfterATD hrs. Water Depth:18 ft., After28 days
Project	et No.: 215623 et Name: Solutia W		 ipplementa	al Monitoring Program
	ng Contractor:		RED	▼ Water level after drilling
Drilli	ng method:	H	SA, Mud	
Drilli Drilli Logge	ed by: Palm	er/Hai	't	USC based on field visual observations
Ž				visual observations

	Piezometer/Well			LOG OF BORING WELL CONSTRUCTIO GWE-5	
feet	Construction				oordinates
Depth In feet	GWE-5 GWE-5 GWE-5 M D	Symbol	nscs	Completion C Date: 11/23/11 Casing Elevation: 408.05 (S), 408.20 (M), 408.38 (D) Ground Elevation: 408.47 (S), 408.59 (M), 408.79 (D) DESCRIPTION	Northing: N/A Easting: N/A NOTES
65	222222222222222222222222222222222222222			Trace of rounded gravel	
70	222222222222222222222222222222222222222			With rounded gravel	
75	222222222222222222222222222222222222222		SP		
80 85 85 85 85 85 85 85 85 85 85 85 85 85	222222222222222222222222222222222222222				
(7	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
	letion Depth:10' et No.:21562	7 ft bgs 703	<u> </u>	Water Depth: 2 Water Depth: 1	5 ft., After <u>ATD</u> hrs. 6 ft., After <u>28 days</u>
Projec			upplementa	l Monitoring Program	of drilling
	ng Contractor:		RED	I Water level after d	illing
Drillin	ng method:Palm	H nor/Us	SA, Mud l rt		
Drilling Drilling Logge	u uy ram	.K.1/118		URS	USC based on field visual observations

WELL CO	G OF BORING AND ONSTRUCTION DETAIL GWE-5
© Construction Completion	Coordinates
GWE-5	Northing: N/A 408.38 (D) Easting: N/A 408.79 (D)
S M D 00 DESCRIPTION	ION NOTES
100— 105— Terminated boring on bedrock surafec at 1-shallow and midle piezometers at the follox Shallow: 28' bgs Medium 58' bgs and deep monitoring well Deep: 106' bgs 115— 115— 116— 117— 118— 118— 118— 118— 118— 119— 110— 110— 110— 110— 1110—	
Completion Depth: 107 ft bgs Wa Project No.: 21562703 Wa	ater Depth:25 ft., AfterATD hrs. ater Depth:18 ft., After28 days_
Project Name: Solutia WGK. Supplemental Monitoring Program \text{Va}	ater level at time of drilling
Drilling Contractor: REDI	ater level after drilling
Drilling method: HSA, Mud Rotary	
Logged by: Palmer/Hart URS	USC based on field visual observations

Appendix B Groundwater Purging and Sampling Forms



Troll 9000 12/05/11

Low-Flow System ISI Low-Flow Log

Project Information:

Operator Name Michael Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Geopump Peristaltic
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

 Well Id
 GWE-1D

 Well diameter
 1 [in]

 Well total depth
 129.8 [ft]

 Depth to top of screen
 119.8 [ft]

 Screen length
 120 [in]

 Depth to Water
 30.05 [ft]

Pumping information:

Final pumping rate 300 [mL/min]
Flowcell volume 600 [mL]
Calculated Sample Rate 120 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	14:18:06	54.71	7.07	2883.05	12.22	0.24	150.30
	14:20:11	54.65	7.03	2934.38	6.43	0.17	149.48
Last 5 Readings	14:22:15	54.86	7.01	2931.55	4.50	0.13	148.16
	14:24:18	54.85	6.99	2951.75	3.47	0.11	146.48
	14:26:23	54.98	6.95	2960.36	1.91	0.09	143.96
	14:22:15	0.20	-0.02	-2.83	-1.92	-0.04	-1.33
Variance in last 3 readings	14:24:18	-0.01	-0.02	20.20	-1.03	-0.02	-1.67
	14:26:23	0.13	-0.04	8.60	-1.56	-0.02	-2.53



Troll 9000 12/06/11

Low-Flow System ISI Low-Flow Log

Project Information:

Operator Name Mike Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Geopump Peristaltic
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well IdGWE-3DWell diameter1 [in]Well total depth117.23 [ft]Depth to top of screen107.23 [ft]Screen length120 [in]Depth to Water27.91 [ft]

Pumping information:

Final pumping rate 400 [mL/min]
Flowcell volume 600 [mL]
Calculated Sample Rate 90 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	8:54:28	57.92	6.91	2677.16	3.09	-0.02	187.43
	8:56:32	58.00	6.92	2700.04	6.10	-0.03	184.48
Last 5 Readings	8:58:36	57.92	6.95	2720.63	6.43	-0.05	181.82
	9:00:41	58.00	6.94	2734.18	4.81	-0.06	179.13
	9:02:44	58.08	6.92	2745.24	6.05	-0.06	176.78
	8:58:36	-0.08	0.04	20.59	0.32	-0.01	-2.65
Variance in last 3 readings	9:00:41	0.08	-0.02	13.55	-1.62	-0.01	-2.69
	9:02:44	0.08	-0.02	11.05	1.24	-0.01	-2.35



Troll 9000 12/05/11

Low-Flow System ISI Low-Flow Log

Project Information:

Operator Name Mike Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Proactive SS Monsoon
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

 Well Id
 GWE-5D

 Well diameter
 2 [in]

 Well total depth
 105.43 [ft]

 Depth to top of screen
 102.93 [ft]

 Screen length
 60 [in]

 Depth to Water
 18.26 [ft]

Pumping information:

Final pumping rate 400 [mL/min]
Flowcell volume 600 [mL]
Calculated Sample Rate 90 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	11:14:00	60.49	6.79	2279	7.50	-0.20	77.00
	11:18:00	60.48	6.79	2291	7.80	-0.20	76.00
Last 5 Readings	11:22:00	60.42	6.80	2357	5.70	-0.20	76.00
	11:26:00	60.47	6.80	2378	6.50	-0.21	75.00
	11:30:00	60.49	6.80	2385	6.90	-0.21	75.00
	11:22:00	-0.06	0.01	66.00	-2.10	0.00	0.00
Variance in last 3 readings	11:26:00	0.05	0.00	21.00	0.80	-0.01	-1.00
	11:30:00	0.02	0.00	7.00	0.40	0.00	0.00



Troll 9000 12/06/11

Low-Flow System ISI Low-Flow Log

Project Information:

Operator Name Michael Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Geopump Peristaltic
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

 Well Id
 GWE-2D

 Well diameter
 1 [in]

 Well total depth
 136.69 [ft]

 Depth to top of screen
 126.69 [ft]

 Screen length
 120 [in]

 Depth to Water
 29.93 [ft]

Pumping information:

Final pumping rate 150 [mL/min]
Flowcell volume 600 [mL]
Calculated Sample Rate 240 [sec]
Sample rate 240 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	10:09:35	56.21	6.93	3600.22	6.04	0.74	187.56
	10:13:43	56.09	6.91	3631.37	6.92	0.56	182.77
Last 5 Readings	10:17:53	56.38	6.90	3661.84	11.96	0.42	178.45
	10:22:02	56.45	6.90	3665.09	10.76	0.34	174.72
	10:26:10	56.60	6.89	3677.92	6.10	0.28	171.35
	10:17:53	0.29	-0.01	30.47	5.04	-0.14	-4.32
Variance in last 3 readings	10:22:02	0.07	-0.01	3.25	-1.20	-0.08	-3.72
	10:26:10	0.15	0.00	12.83	-4.66	-0.06	-3.38

Appendix C

Chains-of-Custody

Savannah

5102 LaRoche Avenue

Chain of Custody Record



Page 34 of 38

Savannah, GA 31404																						TestAmerica Laboratories, Inc.
phone 912.354.7858 fax 912.352.0165		To:	· · · ·		- s. N	Ja4h	an M		-1on		Date		72	7/	7 ,,			COC No:				
Client Contact		anager: Dav				_							Hen			rier:	12/5/11 FedEx					of 2 COCs
URS Corporation		314) 743-415		TEST .		178	ib Co	ontac	et: L	Jaya	a Gul	azia	-Т-	┯┉┙	Cari	rier:	7	1				Joh No
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St. Louis, MO 63110			ork Days (W	. /	<u></u>	- 6		1		375.4		1			1		1				Į	21502703:00009
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(314) 429-0462 FAX	コ 誉		2 weeks					ايرا		ğ			18	.]			1	1	1 1	l		354 No.
Project Name: 4Q11 Supplemental GW Sampling			l week				1	E		3	175		9 6	,		1				ı		
Site: Solutia WG Krummrich Facility		7	2 days			2	1.	2	0.1	325.2/Sulfate by	× .	7	Ę	.	1	1						1
PO#		,	l day				38	d# b	33	33	× 1	353	. S	15.1								
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	litered S	VOCs by 8260	Total Fe/Mn by 6010B	Alk/CO2 by 310.1	Chloride by 3	Methane by RSK 175	Nitrate by 353.2	LUC by 415.1 Dissolved Fe/Mn by 6010B	DOC by 415.1							***************************************	Sample Specific Notes:
				1			1	H	—	 	1	-	=	干	Ħ	=	+	十	Ħ	十	=	
GWE-1D -1311 GWE-1D -F(0.2)-1311 GWE-2D-1211-EB	12/5/11	-4	G	Water	 		3	1	1	1	3	2 1	_	-	 	\dashv	_	+	\sqcup	+	4	
GWE-1D -F(0.2)-1311	'	1435		Water	1	X	1	\sqcup			\sqcup	\bot	1	1	igsquare		\bot	\bot	\sqcup		_	
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4Q11 SUPP Trip Blank #	12/5/11			Water	2	T	2	+		Н		\dagger	十	†	$ \cdot $	\top	\top	十	\vdash	1	\top	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=N			نــــــــنـــــــــــــــــــــــــــــ	لــــــــــــــــــــــــــــــــــــــ				1 1		┼┼	1	1 3	1 2	+-	2	_	+	┿	╁	\dashv	十	
Possible Hazard Identification	4011,0	<u></u>					Sai	mpl	e Di	نتا spo	sal (A fe	e ma	ıv be	ass	esse	d if s	amp	les a	re re	taine	ed longer than 1 month)
Non-Hazard Flammable Skin Irritant	Poisor	m B	Unknown	$n \square$							o Clie						By La					e For Months
Special Instructions/QC Requirements & Comments: Level 4														-	<u> </u>							
Special first detoils & section online to comments.	200 an an annual																					680-74941
																				To	m	10-2-0°C, 1-4°C
Relinquished by:	Company:	URS		Date/Ti	me:	Pecceived by Date/Time; 125/											Date/Time; 1530					
Relinquished by:	Company:			Date/Ti	Ph. I	17/2	Res	geive	d by:		$\bigcap_{i=1}^{n}$		CU		1-71	1/ (Comp	any: FSY	av			Date/Time:
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Savannah

5102 LaRoche Avenue

Chain of Custody Record



Savannan, GA 31404																						TestAmerica Laboratories, Ir	ıc.
phone 912.354.7858 fax 912.352.0165 Client Contact	Project M	onoger: No		Site Contact: Nathan McNurlen Date:										1-	10	to:				COC No:			
	·\$	314) 743-41				-		ntact							arrier: FOREX							ofCOCs	
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(314) 429-0462 FAX		2	2 weeks						i e				8									SDG No.	
Project Name: 4Q11 Supplemental GW Sampling		1	week					≘	Sulfate by 375.4	75			8		1								
Site: Solutia WG Krummrich Facility		:	2 days				- 13	§ -	. 1 >>	K 1	2		<u>e</u>										
PO#			i day			Ē	ਫ਼	g F	32.	8	353,	5.1	§ ;	3									
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GWE-3D -n11	12/6/11	0910	G	Water	12	П	3	1	1	3	2	1										-	
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GWE-3D-1211-AD	,	0910	G	W	3		3																
GWE-2D-1211		1035	6	W	12		3)))	3	2	1											
GWE-2D-F(0.2)-1211		1035	6	W	2	X							1)										gc 40
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Savannah

5102 LaRoche Avenue

Chain of Custody Record



Page 21 of 23

Savannah, GA 31404																						TestAmerica Laboratories, Inc.
phone 912.354.7858 fax 912.352.0165																		· · · · · ·				
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Appendix D Quality Assurance Report

Solutia Inc. W.G. Krummrich Facility Sauget, Illinois

Supplemental Groundwater Monitoring Program

4th Quarter 2011 Data Report

Prepared for

Solutia Inc. 575 Maryville Centre Drive St. Louis, MO 63141

January 2012



URS Corporation 1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63110 (314) 429-0100 **Project # 21562703.00004**

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1.0 INTRODUCTION

This Quality Assurance Report presents the findings of a review of analytical data for groundwater samples collected in August of 2011 from locations northwest of the Solutia W.G. Krummrich plant, as part of the 4th Quarter 2011 Supplemental Groundwater Monitoring Program. The samples were collected by URS Corporation personnel and analyzed by TestAmerica Laboratories located in Savannah, Georgia using USEPA methods, Standard methods and USEPA SW-846 methodologies. Groundwater samples were tested for volatile organic compounds (VOCs), dissolved gasses, total and dissolved metals, and general chemistry (MNAs).

One hundred percent of the data were subjected to a data quality review (Level III review). Please see **Appendix E** for data reviews. The Level III reviews were performed in order to confirm that the analytical data provided by TestAmerica Savannah were acceptable in quality for their intended use.

A total of 7 groundwater samples (four investigative samples, one field duplicate pair, one MS/MSD pair, and one equipment blank) were analyzed by TestAmerica. In addition, three trip blank sets were included in the coolers that contained groundwater samples for VOC analysis and were analyzed for VOCs by USEPA SW-846 Method 8260B. These samples were analyzed as Sample Delivery Groups (SDG) KPS069 and KPS070 utilizing the following USEPA SW-846 Methods:

- Method 8260B for VOCs (Benzene, Chlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene and 1,4-Dichlorobenzene)
- Method 6010B for total and dissolved iron and manganese

Samples were also analyzed for dissolved gasses and general chemistry parameters by the following methods:

- Method RSK-175 for Dissolved Gasses (Ethane, Ethylene, and Methane)
- USEPA Method 310.1 for Alkalinity and Free Carbon Dioxide
- USEPA Method 325.2 for Chloride
- USEPA Method 353.2 for Nitrogen, Nitrate-Nitrite
- USEPA Method 375.4 for Sulfate
- USEPA Method 415.1 for Total and Dissolved Organic Carbon

Samples were reviewed following procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA 2008) and USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Data



Review, (USEPA 2010) and the Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia 2009).

The above guidelines provided the criteria to review the data. Additional quantitative criteria are given in the analytical methods. Qualifiers assigned by the data reviewer have been applied to the laboratory report. The qualifiers indicate data that did not meet acceptance criteria and corrective actions were not successful or not performed. The various qualifiers are explained in **Tables 1** and **2** below:

TABLE 1 – Laboratory Data Qualifiers

Lab Qualifier	Definition
U	Analyte was not detected at or above the reporting limit.
*	LCS, LCSD, MS, MSD, MD or surrogate exceeds the control limits.
Е	Result exceeded the calibration range, secondary dilution required.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Х	Spike recovery exceeds upper or lower control limits.
F	MS, MSD or RPD exceeds upper or lower control limits.
Р	The difference between the results of the two GC columns is greater than 40%
Н	Sample was prepped or analyzed beyond the specified holding time.
В	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

TABLE 2 - URS Data Qualifiers

URS Qualifier	Definition
U	The analyte was analyzed for but was not detected.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy, precision, and representativeness



(based on MS/MSD, LCS, surrogate compounds and field duplicate results) were achieved for this data set, except where noted in this report. In addition, analytical completeness, defined as the percentage of analytical results that are judged to be valid, including estimated detect/non-detect (**J/UJ**) data was 100 percent, which meets the completeness goal of 95 percent.

The data review included evaluation of the following criteria:

Organics

- Receipt condition and sample holding times
- Laboratory method blanks, field equipment blanks and trip blank samples
- Surrogate spike recoveries
- Laboratory control sample (LCS) recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) sample recoveries and relative percent difference (RPD) values
- Field duplicate results
- Results reported from dilutions
- Internal standard responses

Inorganics/General chemistry

- Receipt condition and sample holding times
- Laboratory method blank and field equipment blank samples
- LCS recoveries
- MS/MSD sample recoveries and matrix duplicate RPD values
- Field duplicate and laboratory duplicate results
- Results reported from dilutions

The following sections present the results of the data review.

2.0 RECEIPT CONDITION AND SAMPLE HOLDING TIMES

Sample holding time requirements for the analyses performed are presented in the methods and/or in the data review guidelines. Review of the sample collection, extraction and analysis dates involved comparing the chain-of-custody and the laboratory data summary forms for accuracy, consistency, and holding time compliance.



Upon review of the KPS069 data, the cooler receipt form indicated one of two coolers was received by the laboratory at 1.4°C which was outside the 4°C ± 2°C criteria. The samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated MS/MSD analyses for sample GWE-5D-1211 were cancelled by URS; however the laboratory completed MS/MSD analyses for chloride, sulfate, and total organic carbon as sufficient sample volume was available for these analyses.

Upon review of the KPS070 data, the cooler receipt form indicated two of three coolers were received by the laboratory at 1.4°C which is outside the 4°C ± 2°C criteria. The samples were received in good condition; therefore, no qualification of data was required.

3.0 TRIP BLANKS, LABORATORY METHOD BLANK AND EQUIPMENT BLANK SAMPLES

Trip blank samples are used to assess VOC cross contamination of samples during shipment to the laboratory. Trip blanks were submitted with each cooler shipped containing samples for VOC analyses for a total of three trip blank sample sets. All associated samples were non-detect; therefore, no qualification of data was required.

Laboratory method blank samples evaluate the existence and magnitude of contamination problems resulting from laboratory activities. All laboratory method blank samples were analyzed at the method prescribed frequencies. Method blank samples were non-detect.

Equipment blank samples are used to assess the effectiveness of equipment decontamination procedures. Equipment blank samples were non-detect.

4.0 SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. Samples analyzed for VOCs were spiked with surrogate compounds during sample preparation. USEPA National Functional Guidelines for Superfund Organic Methods Data Review state how data is qualified, if surrogate spike recoveries do not meet acceptance criteria.

Groundwater surrogate recoveries were within evaluation criteria; therefore, no qualification of data was required.

5.0 LABORATORY CONTROL SAMPLE RECOVERIES

Groundwater laboratory control samples (LCS) are analyzed with each analytical batch to assess the accuracy of the analytical process. LCS recoveries were within evaluation criteria. No qualification of data was required.



6.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES

MS/MSD samples are analyzed to assess the accuracy and precision of the analytical process on an analytical sample in a particular matrix. MS/MSD samples were required to be collected at a frequency of one per 20 investigative samples in accordance with the work plan. URS Corporation submitted one MS/MSD sample set for 7 investigative samples meeting the work plan frequency requirement.

No data qualifications were required if MS/MSD recoveries alone were outside evaluation criteria due to matrix interference or if sample concentrations were greater than four times (4X) the matrix spike concentrations.

Groundwater samples spiked and analyzed as MS/MSDs and their respective recoveries are discussed further in **Appendix D**. No qualification of data was required.

7.0 FIELD DUPLICATE RESULTS

Field duplicate results are used to evaluate precision of the entire data collection activity, including sampling, analysis and site heterogeneity. When results for both duplicate and sample values are greater than five times the practical quantitation limit (PQL), satisfactory precision is indicated by an RPD less than or equal to 25 percent for aqueous samples. Where one or both of the results of a field duplicate pair are reported at less than five times the PQL, satisfactory precision is indicated if the field duplicate results agree within 2 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

One pair of field duplicate samples were collected for the five investigative groundwater samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). Groundwater field duplicate RPDs were within evaluation criteria; therefore, no qualification of data was required.

8.0 INTERNAL STANDARD RESPONSES

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -50 percent to +100 percent for VOCs.

The internal standards area responses for VOCs were verified for the data review. VOC IS responses met the criteria as described above for all groundwater samples. No qualification of data was required.



9.0 RESULTS REPORTED FROM DILUTIONS

VOC, chloride, and sulfate results for groundwater samples were diluted when high levels of target analytes were present. The diluted sample results for these analytes were reported for the associated samples.



Appendix E Groundwater Analytical Results (with Data Review Reports)

Supplemental Groundwater Monitoring Program 4Q 2011 Data Review

Laboratory SDG: KPS069

Data Reviewer: Melissa Mansker Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/5/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008. USEPA National Functional Guidelines for Superfund

Inorganic Data Review 2010

Work Plan: Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia

2009)

Sample Identification							
GWE-5D-1211	GWE-5D-F(0.2)-1211						
4Q11 SUPP Trip Blank #1							

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated MS/MSD recoveries for sulfate in sample GWE-5D-1211 could not be evaluated because sample concentrations were greater than four times (4X) the matrix spike concentrations. Although not indicated in the laboratory case narrative, samples were diluted due to high levels of target analytes. Sample GWE-5D-1211 was diluted and re-analyzed to bring chlorobenzene within the calibration range of the instrument. Results for chlorobenzene were reported from the re-analysis runs and the remaining compounds were reported from the original analyses. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated one of two coolers was received by the laboratory at 1.4°C which was outside the $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ temperature criteria. Samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated MS/MSD analyses for sample GWE-5D-1211 were cancelled by URS; however the laboratory completed MS/MSD analyses for chloride, sulfate, and total organic carbon since sufficient sample volume was available for these analyses.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, although MS/MSD analysis was cancelled by URS, sample GWE-5D-1211 was spiked and analyzed for chloride, sulfate, and total organic carbon since sufficient sample volume was available to complete these analyses.

Were MS/MSD recoveries within evaluation criteria?

No, however MS/MSD recoveries for sulfate in sample GWE-5D-1211 could not be evaluated because sample concentrations were greater than four times (4X) the matrix spike concentrations. No qualification of data was required.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
GWE-5D-1211	General chemistry	Sulfate	NA/NA	3	75-125/30

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

12.0 Additional Qualifications

Were additional qualifications applied?

No

Supplemental Groundwater Monitoring Program 4Q 2011 Data Review

Laboratory SDG: KPS070

Data Reviewer: Melissa Mansker Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/5/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008. USEPA National Functional Guidelines for Superfund

Inorganic Data Review 2010

Work Plan: Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia

2009)

Sample Identification							
GWE-1D-1211	GWE-1D-F(0.2)-1211						
GWE-2D-1211-EB	4Q11 SUPP Trip Blank #2						
GWE-3D-1211	GWE-3D-F(0.2)-1211						
GWE-3D-1211-AD	GWE-2D-1211						
GWE-2D-F(0.2)-1211	4Q11 SUPP Trip Blank #3						

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, several samples were diluted due to high levels of target analytes. This issue is discussed further in the appropriate section below.

The cooler receipt form indicated two of three coolers were received by the laboratory at 1.4° C which is outside the 4° C \pm 2° C criteria. The samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, sample GWE-2D-1211 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

Yes

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GWE-3D-1211	GWE-3D-1211-AD

Were field duplicate sample RPDs within evaluation criteria?

Yes

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported? Not applicable; analytes were detected in samples that were diluted.

12.0 Additional Qualifications

Were additional qualifications applied?

No

SDG KPS069

Results of Sample from Monitoring Well:

GWE-5D

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-74941-1 TestAmerica Sample Delivery Group: KPS069 Client Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

For: Solutia Inc. 575 Maryville Centre Dr. Saint Louis, Missouri 63141

Attn: Mr. Jerry Rinaldi

Lider Juliaio Authorized for release by: 1/4/2012 5:28:11 PM

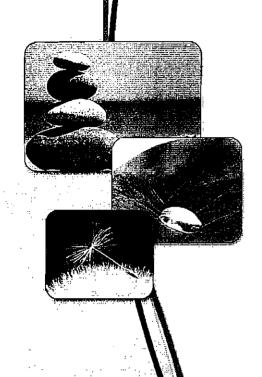
Lidya Gulizia Project Manager II lidya.gulizia@testamericainc.com Reviewed on or My

cc: Bob Billman

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Job ID: 680-74941-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative

Receipt

All samples were received in good condition within temperature requirements.

The client submitted matrix spike and matrix spike duplicate (MS/MSD) samples for the project sample and cancelled these analyses following lab receipt, however, some analysis parameters were initiated prior to the cancellation where the MS/MSD were utilized for the batch QC. These data have been reported where available to satisfy laboratory batch QC requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223685 were outside control limits for Methane. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223650 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 375.4: The matrix spike(MS) recoveries for batch 223003 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Comments

No additional comments.

JAN **0 5** 2012

TestAmerica Savannah

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US EPA ARCHIVE DOCUMENT

Sample Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Lab Sample ID	Client Sample ID		Matrix	Colle	ected Received	
680-74941-1	GWE-5D-1211		Water	12/05/1	1 11:40 12/06/11 11:07	
680-74941-2	GWE-50-F(0.2)-1211	_	Water	12/05/1	1 11:40 12/06/11 11:07	
680-74941-3	4Q11 SUPP Trip Blank #1		Water	12/05/1	1 00:00 12/06/11 11:07	



JAN 0 5 2012

Method Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method	Method Description	Protocol	Laboratory
82608	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
60108	Metals (ICP)	SW846	TAL SAV
310.1	Alkalinity	MCAWW	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
415.1	TOC	MCAWW	TAL SAV
415.1	DOC	MCAWW	TAL SAV

Protocol References

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

JAN 0 5 2012

EPA ARCHIVE DOCUMENT

Definitions/Glossary

Client: Solutia Inc.

TestAmerica Job ID: 680-74941-1

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

SDG: KPS069

GC/MS VOA

Qualifiers

Qualifier Qualifier Description

Ε Result exceeded calibration range.

D Surrogate or matrix spike recovenes were not obtained because the extract was diluted for analysis; also compounds analyzed at a

dilution may be flagged with a D.

Indicates the analyte was analyzed for but not detected.

GC VOA

U

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

Metals

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not

applicable.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CNF Contains no Free Liquid

DL, RA, RE, IN Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit

EPA United States Environmental Protection Agency

MDL Method Detection Limit ML Minimum Level (Dioxin)

ND Not detected at the reporting limit (or MDL or EDL if shown)

Practical Quantitation Limit PQL

QC Quality Control Reporting Limit RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

								 ·	
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	53		1.0		ug/L	1		8260B	Total/NA
Chlorobenzene	2000	E	1.0		ug/L	1		8260B	Total/NA
,2-Dichlorobenzene	17		1.0		ug/L	1		8260B	Total/NA
,3-Dichlorobenzene	3,9		1.0		ug/L	1		8260B	Total/NA
,4-Dichlorobenzene	110		1.0		ug/L	1		8260B	Total/NA
Benzene - DL	51	D	20		ug/L	20		8260B	Total/NA
Chlorobenzene - DL	1600	D	20		ug/L	20		8260B	Total/NA
,4-Dichlorobenzene - DL	96	D	20		ug/L	20		8260B	Total/NA
Methane	58		0.58		ug/L	1		RSK-175	Total/NA
on on	13		0.050		mg/L	1		6010B	Total Recove
fanganes e	0.39		0.010		mg/L	1		6010B	Total Recove
Chloride	89		2.0		mg/L	2		325.2	Total/NA
Gulfate	280		50		mg/L	10		375.4	Total/NA
otal Organic Carbon	16		1.0		mg/L	1		415.1	Total/NA
nalyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
lkalinity	400		5.0		mg/L		_	310.1	Total/NA
Carbon Dioxide, Free	33		5.0		mg/L	1		310.1	Total/NA
ient Sample ID: GWE-5D	-F(0.2)-1211					La	ıb	Sample ID	: 680-74941-
nalyte	Result	Qualifier	RL	MDL	Unit	Díl Fac	D	Method	Prep Type
ron, Dissolved	14		0.050		mg/L	1		6010B	Dissolved
flanganese, Dissolved	0.42		0.010		mg/L	1		6010B	Dissolved
hissolved Organic Carbon	16		1.0		mg/L	1		415.1	Dissolved

No Detections

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit Analyte Prepared Analyzed Dil Fac 1.0 Benzene 53 ug/L 12/16/11 01:21 Ghlorobenzeni 2000 1.0 ug/L 12/16/11 01:21 1,2-Dichlorobenzene 17 1.0 ug/L 12/16/11 01:21 1,3-Dichlorobenzene 3.9 12/16/11 01:21 1.0 1,4-Dichlorobenzene 110 ug/L Qualifier

Surrogate %Recovery Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene 84 70.130 12/16/11 01:21 Dibromofluoromethane 84 70 - 130 12/16/11 01:21 Toluene-d8 (Surr) 70 ₋ 130 12/16/11 01:21 was reported from the 1.0x de lution

ana Method: 8260B - Volatile Organic Compounds (GC/MS) - DL Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed 51 D 20 ug/L 12/19/11 17:39 20 Benzene 20_ 20 12/19/11 17:39 Chlorobenzene 1600 D ug/L 20 1,2-Dichlorobenzene 20 U ug/L 12/19/11 17:39 20 1,3-Dichlorobenzene 20 U 20 ug/L 12/19/11 17:39 20 1,4-Dichlorobenzene 96 D 20 ug/L 12/19/11 17:39 20 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene 95 70 - 130 12/19/11 17:39 20 85 Dibromofluoromethane 70 - 130 12/19/11 17:39 20 Toluene-d8 (Surr) 111 70 - 130 12/19/11 17:39 20

Method: RSK-175 - Dissolved Gases (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Ethane	1.1	U	1.1		ug/L			12/14/11 23:22	1
	Ethylene	1,0	U	1.0		ug/L			12/14/11 23:22	1
	Methane	58		0.58		ug/L			12/14/11 23:22	1

Method: 6010B - Metals (ICP) - Total Recoverable											
	Analyte	Result Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac		
	Iron	13	0.050	i	mg/L		12/07/11 09:59	12/08/11 05:10	1		
	Manganese	0.39	0.010	1	mg/L		12/07/11 09:59	12/08/11 05:10	1		

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Faç
Chloride	89		2.0		mg/L			12/29/11 10:19	2
Nitrate as N	0.050	U	0.050		mg/L			12/06/11 15:49	1
Sulfate	280		50		mg/L			12/08/11 12:39	10
Total Organic Carbon	16		1.0		mg/L			12/27/11 14:14	1
Analyle	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	400		5.0		mg/L			12/06/11 19:10	
Carbon Dioxide, Free	33		5.0		mg/L			12/06/11 19:10	1

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Client Sample Results

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Client Sample ID: GWE-5D-F(0.2)-1211 Lab Sample ID: 680-74941-2

Date Collected: 12/05/11 11:40 Date Received: 12/06/11 11:07 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
lron, Dissolved	14		0.050		mg/L		12/07/11 09:59	12/08/11 05:05	1
Manganese, Dissolved	0.42		0,010		mg/L		12/07/11 09:59	12/08/11 05:05	1
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	16		1.0		mg/L			12/15/11 18:27	

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Client Sample Results

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Client Sample ID: 4Q11 SUPP Trip Blank #1

Lab Sample ID: 680-74941-3

Date Collected: 12/05/11 00:00 Date Received: 12/06/11 11:07 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1,0	U	1.0		ug/L			12/15/11 21:58	1
Chlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 130			_		12/15/11 21:58	1
Dibromofluoromethane	92		70 - 130					12/15/11 21:58	1
Toluene-d8 (Surr)	109		70.130					12/15/11 21:58	1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

				Percent Surro	gate Recovery (Acceptance Limits
		BFB	DBFM	TOL	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	
680-74941-1	GWE-5D-1211	84	84	110	
680-74941-1 - DL	GWE-5D-1211	95	85	111	
680-74941-3	4Q11 SUPP Trip Blank #1	92	92	109	
LCS 680-223910/4	Lab Control Sample	105	96	104	
LCS 680-224057/4	Lab Control Sample	105	97	104	
LCSD 680-223910/5	Lab Control Sample Dup	104	96	103	
LCSD 680-224057/5	Lab Control Sample Dup	109	102	105	
MB 680-223910/7	Method Blank	94	88	109	
MB 680-224057/8	Method Blank	97	92	109	

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

Client Sample ID: Method Blank

Prep Type: Total/NA

SDG: KPS069

Method: 8260B - Volatile Organic Compounds (GC/MS)	Method: 8260B -	Volatile	Organic	Compounds	(GC/MS)
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Lab Sample ID: MB 680-223910/7

Matrix: Water

Analysis Batch: 223910

_	мв	MB							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Faç
Benzene	1,0	U	1.0	uç	ıg/L			12/15/11 21:36	1
Chlorobenzene	1.0	U	1.0	ug	ıg/L			12/15/11 21:36	1
1,2-Dichlorobenzene	1.0	U	1.0	ug	ıg/L			12/15/11 21:36	1
1,3-Dichlorobenzene	1.0	U	1.0	ug	ıg/L			12/15/11 21:36	1
1,4-Dichloroberizene	1.0	U	1.0	ug	ıg/L			12/15/11 21:36	1

	мв	мв					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130	_		12/15/11 21:36	1
Dibromofluoromethane	88		70 - 130			12/15/11 21:36	1
Toluene-d8 (Surr)	109		70 - 130			12/15/11 21:36	1



Lab Sample ID: LCSD 680-223910/5

Matrix: Water

Lab Sample ID: LCS 680-223910/4				Client	Sample	ID: Lab Control Sample
Matrix: Water						Prep Type: Total/NA
Analysis Batch: 223910						
	Spike	LCS LCS	6			%Rec.
8 I. da	N adad a ad	Decula Oue	100 11	-14 -	0/ D	1:-14-

Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
Benzene	50.0	52.3	ug/L	105	70 - 130	
Chlorobenzene	50.0	51.0	ug/L	102	70 - 130	
1,2-Dichlorobenzene	50.0	53.8	ug/L	108	70 - 130	
1,3-Dichlorobenzene	50.0	52.7	ug/L	105	70 ₋ 130	
1,4-Dichlorobenzene	50.0	52.5	ug/L	105	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 70 - 130 105 Dibromofluoromethane 96 70 - 130 70 - 130 104 Toluene-d8 (Surr)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 223910 LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 50.0 51,4 ug/L 103 70 - 130 30 50.0 50.7 ug/L 70 - 130 Chlorobenzene 101 30 50.0 53.0 ug/L 70 - 130 30 1,2-Dichlorobenzene 106 50.0 1,3-Dichlorobenzene 51.6 ug/L 70 - 130 30 103

1,4-Dichlorobenzene			50.0	51.8	ug/L	104	70 - 130	1	30
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene	104		70 - 130						
Dibromofluoromethane	96		70 - 130						
Toluene-d8 (Surr)	103		70 _ 130						

Lab Sample ID: MB 680-224057/8

Matrix: Water

Analysis Batch: 224057

Client Sample ID: Method Blank Prep Type: Total/NA

	MB	мв						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	Ü	1.0	ug/L			12/19/11 12:53	

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-224057/8

Matrix: Water

Client Sample ID: Method Blank
Prep Type: Total/NA

Analysis Batch: 224057

Allalysis Butoff. EE-1001								
	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	Ų	1.0	ug/L			12/19/11 12:53	1
1,2-Dichlorobenzene	1.0	Ų	1.0	ug/L			12/19/11 12:53	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			12/19/11 12:53	1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			12/19/11 12:53	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	DII Fac
4-Bromofluorobenzene	97		70 - 130		-		12/19/11 12:53	1
Dibromofluoromethane	92		70 - 130				12/19/11 12:53	1
Toluene-d8 (Surr)	109		70 - 130				12/19/11 12:53	1

Lab Sample ID: LCS 680-224057/4 Client Sample ID: Lab Control Sample
Matrix: Water Prep Type: Total/NA

Analysis Batch: 224057

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	52.7		ug/L		105	70 - 130	
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130	
1,2-Dichlorobenzene	50,0	51.2		ug/L		102	70 - 130	
1,3-Dichlorobenzene	50.0	50.3		սց/Լ		101	70 - 130	
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130	

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene
 105
 70 - 130

 Dibromofluoromethane
 97
 70 - 130

 Toluene-d8 (Surr)
 104
 70 . 130

Lab Sample ID: LCSD 680-224057/5

Client Sample ID: Lab Control Sample Dup
Matrix: Water

Prep Type: Total/NA

Analysis Batch: 224057

	Allalysis Buton. 22-1007	Spike	LCSD	LCSD				%Rec.		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	50,0	54.1		ug/L		108	70 - 130	3	30
	Chlorobenzene	50.0	51.4		ug/L		103	70 . 130	5	30
	1,2-Dichlorobenzene	50.0	52.6		ug/L		105	70 - 130	3	30
-	1,3-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 130	4	30
	1,4-Dichlorobenzene	50,0	51.4		ug/L		103	70 ₋ 130	2	30

	LCSD	LCSD	
Surrogate	%Recove ry	Qualifier	Limits
4-Bromofluorobenzene	109		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	105		70 ₋ 130

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method:	: RSK-175 -	 Dissolved 	Gases	(GC)
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Lab Sample ID: MB 680-223685/1 Client Sample ID: Method Blank
Matrix: Water Prep Type: Total/NA

Analysis Batch: 223685

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.1	U	1.1		ug/L			12/14/11 21:36	1
Ethylene	1.0	U	1.0		ug/L			12/14/11 21:36	1
Methane	0.58	U	0.58		ug/L			12/14/11 21:36	1

Lab Sample ID: LCS 680-223685/3

Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analysis Batch: 223685

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limits 282 263 75 - 125 Ethane ug/L 93 Ethylene 271 256 ug/L 94 75.125 153 147 ug/L 96 75 - 125 Methane

Lab Sample ID: LCSD 680-223685/4
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA

Analysis Batch: 223685

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethane	 282	312		ug/L		111	75 - 125	17	30
Ethylene	271	297		ug/L		110	75 - 125	15	30
Methane	153	173		ug/L		113	75 - 125	16	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-222847/1-A

Matrix: Water

Analysis Batch: 222959

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 222847

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	U	0.050		mg/L		12/07/11 09:59	12/08/11 03:09	1
Iron, Dissolved	0.050	U	0.050		mg/L		12/07/11 09:59	12/08/11 03:09	1
Manganese	0.010	U	0.010		mg/L		12/07/11 09:59	12/08/11 03:09	1
Manganese, Dissolved	0.010	U	0.010		mg/L		12/07/11 09:59	12/08/11 03:09	1

Lab Sample ID: LCS 680-222847/2-A

Matrix: Water

Analysis Batch: 222959

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 222847

·	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	1.00	0,929		mg/L		93	75 - 125	
Iron, Dissolved	1.00	0.929		mg/L		93	75 - 125	
Manganese	0.500	0.472		mg/L		94	75 - 125	
Manganese, Dissolved	0.500	0.472		mg/L		94	75 - 125	

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Lab Sample ID: MB 680-222831/5											c	lient Sa	ample ID: I	Method	Blant
Matrix: Water													Prep T		
Analysis Batch: 222831														,,,	
· · · · · · · · · · · · · · · · · · ·		MB I	MB												
Analyte	R	esult (Qualifier		RL		RL	Unit		D	Pre	pared	Analyz	ed	Dil Fa
Alkalinity		5.0 l	J		5.0			mg/L					12/06/11	18:02	
Carbon Dioxide, Free		5.0 €	נ		5.0			mg/L					12/06/11	18:02	
- Lab Sample ID: LCS 680-222831/6										Cli	ient S	Sample	ID: Lab Co	ontrol S	Sample
Matrix: Water													Prep T	ype: To	otal/N/
Analysis Batch: 222831															
				Spike		LCS							%Rec.		
Analyte				Added		Result	Qu	alifier	Unit		- <u>D</u>	%Rec	Limits		
Alkalinity				183		176			mg/L			96	80.120		
Lab Sample ID: LCSD 680-222831/	19								Cli	ent S	Samp	le ID: L	ab Contro	•	•
Matrix: Water													Prep T	pe: To	otal/NA
Analysis Batch: 222831															
				Spike		LCSD					_		%Rec.		RPI
Analyte				Added		Result	Qu	alifier	Unit		_ D	%Rec	Limits	RPD	Limi
Alkalinity -				183		163			mg/L			89	80 - 120	8	30
Method: 325.2 - Chloride - Lab Sample ID: MB 680-224981/35											С	lient Sa	ample ID: I		
-		MB N	NB								C	lient Sa	ample ID: ! Prep T		
Lab Sample ID: MB 680-224981/35 Matrix: Water	R		//B Qualifier		RL	м	DL	Unit		D		lient Sa	•	pe: To	
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981	R		Qualifier		RL 1.0	М	DL	Unit mg/L		<u>D</u> _			Prep T	ype: To	otal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride	R	esult C	Qualifier			М	IDL .				Pre	pared	Analyz 12/29/11	pe: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981	R	esult C	Qualifier	_		м	IDL .				Pre	pared	Analyz 12/29/11	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water	R	esult C	Qualifier			М	<u>IDL</u>				Pre	pared	Analyz 12/29/11	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2	R	esult C	Qualifier	Spike		M		mg/L			Pre	pared	Analyz 12/29/11	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water	R	esult C	Qualifier	Spike Added			LC	mg/L	Unit		Pre	pared	Analyz 12/29/11 ID: Lab Co	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981	R	esult C	Qualifier	•		LCS	LC	mg/L	Unit mg/L		Pre ent S	pared Sample	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty %Rec.	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte	R	esult C	Qualifier	Added		LCS Result	LC	mg/L			Pre ent S	pared Sample *Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride	R	esult C	Qualifier	Added		LCS Result	LC	mg/L			Pre ent S	pared Sample *Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS		esult C	Qualifier J	Added 50.0		LCS Result 51.3	LC: Qui	mg/L S alifier			Pre ent S	pared Sample *Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 . 115 ample ID: 0 Prep Ty	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water	Sample	Sampl	Qualifier J	50.0 Spike		LCS Result 51.3	LC: Qua	mg/L S alifier	mg/L		Pre	Sample *Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 ample ID: 0 Prep Ty Rec.	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Analyte	Sample Result	esult C	Qualifier J	50.0 Spike Added		LCS Result 51.3 MS Result	LC: Qua	mg/L S alifier	mg/L Unit		Pre ent S	pared Sample *Rec 103 lient Sa *Rec	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Ample ID: 0 Prep Ty Rec. Limits	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981	Sample	Sampl	Qualifier J	50.0 Spike		LCS Result 51.3	LC: Qua	mg/L S alifier	mg/L		Pre	Sample *Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 ample ID: 0 Prep Ty Rec.	ype: To	Dil Fac
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Analyte	Sample Result	Sampl	Qualifier J	50.0 Spike Added		LCS Result 51.3 MS Result	LC: Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Ample ID: 0 Prep Ty Rec. Limits	ype: To ed il:05 ontrol S ype: To SWE-5[Dil Fac Sample Stal/NA D-1211
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Analyte Chloride	Sample Result	Sampl	Qualifier J	50.0 Spike Added		LCS Result 51.3 MS Result	LC: Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Rec. Limits 85 - 115	ontrol S pe: To swe-5[pe: To	Dil Factorial/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MSD	Sample Result	Sampl	Qualifier J	50.0 Spike Added		LCS Result 51.3 MS Result	LC: Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Rec. Limits 85 - 115	ontrol S pe: To swe-5[pe: To	Dil Face Gample Stal/NA D-1211 D-1211
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MSD Matrix: Water Lab Sample ID: 680-74941-1 MSD Matrix: Water	Sample Result 89	Sampl Qualifi	Qualifier J e	50.0 Spike Added		LCS Result 51.3 MS Result	MS Qui	mg/L S alifier	mg/L Unit		Pre	%Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Rec. Limits 85 - 115	ontrol S pe: To swe-5[pe: To	Dil Face Gample Stal/NA D-1211 D-1211
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981	Sample Result 89	Sampl Qualifi	Qualifier J e	Spike Added 50.0		LCS Result 51.3 MS Result 134	MS Qui	mg/L S alifier	mg/L Unit		Pre	%Rec 103	Analyz Analyz 12/29/11 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Rec. Limits 85 - 115 Analyz Rec. Limits 87 - 115 Analyz Rec. Limits	ontrol S pe: To swe-5[pe: To	Dil Face Dil

'JAN 0 5 2012

Client: Solutia Inc.

Method: 375.4 - Sulfate

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method: 353.2 - Nitrogen, Nitrate-I	Vitrite										
Lab Sample ID: MB 680-222817/14								c	lient Sa	ımple ID: Metho	d Blank
Matrix: Water										Prep Type: 1	Total/NA
Analysis Batch: 222817											
	MB	MB									
Analyte	Result	Qualifier	RL	М	DL Unit		D	Pre	pared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050		mg/L					12/06/11 15:41	1
Lab Sample ID: LCS 680-222817/15							Clie	ent S	Sample	ID: Lab Control	Sample
Matrix: Water										Prep Type: T	Total/NA
Analysis Batch: 222817											
			Spike	LCS	LCS					%Rec.	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Nitrate as N			0,497	0.503		mg/L		_	101	90 - 110	
Nitrate Nitrite as N			0.998	1.00		mg/L			100	90 _ 110	
Nitrite as N			0.502	0.499		mg/L			99	90 - 110	

Lab Sample ID: MB 680-223003/1 Matrix: Water									С	lient Sa	mple ID: N Prep Ty		
Analysis Batch: 223003													
,		мв мв											
Analyte	R	esult Qualifier		RL	М	DL Unit		D	Pre	pared	Analyze	d	Oil Fac
Sulfate		5.0 U		5.0		mg/L					12/08/11 1	2:37	
Lab Sample ID: LCS 680-223003/2								Cli	ent S	Sample	ID: Lab Co	ntrol S	ample
Matrix: Water											Prep Ty	pe: To	tal/NA
Analysis Batch: 223003													
			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Sulfate			20.0		19.3		mg/L			96	75.125		
Lab Sample ID: 680-74941-1 MS									С	lient Sa	ımple ID: G	SWE-50	D-1211
Matrix: Water											Prep Ty	pe: To	tal/NA
Analysis Batch: 223003													
•	Sample	Sample	Spike		MS	MS					%Rec.		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Sulfate	280		20.0		²⁹¹ (4	mg/L			45	75 - 125		
Lab Sample ID: 680-74941-1 MSD									С	lient Sa	imple ID: 0	SWE-50	0-1211
Matrix: Water											Prep Ty	pe: To	ta!/NA
Analysis Batch: 223003													
	Sample	Sample	Spike		MSD	MSD					%Rec.		RPC
		Qualifier	Added		Result	Qualifler	Unit		D	%Rec	Limits	RPD	Limi
Analyle	Result	==											

Method: 415.1 - DOC

Lab Sample ID: MB 680-224100/1

Matrix: Water

Analysis Batch: 224100

RL MDL Unit Dil Fac Result Qualifier Prepared Analyzed Analyte 10 U 1,0 Dissolvad Organic Carbon mg/L 12/15/11 18:27

TestAmerica Savannah

Prep Type: Dissolved

Client Sample ID: Method Blank

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Lab Sample ID: LCS 680-224100/2										Clie	nt S	ample	ID: Lab Cor		•
Matrix: Water													Prep ⊤yp	e: Dis	solved
Analysis Batch: 224100															
				Spike		LCS							%Rec.		
Analyte				Added		Result	Qui	alifier	Unit		D	%Rec	Limits		
Dissolved Organic Carbon				20.0		19.4			mg/L			97	80 . 120		
Method: 415.1 - TOC															
- Lab Sample ID: MB 680-224825/2											С	lient Sa	mple ID: M	ethod	Blank
Matrix: Water													Prep Tyr	pe: To	tal/NA
Analysis Batch: 224825															
		MB N	мв												
Analyte	R	esult (Qualifier		RL	M	DL	Unit		D	Prep	pared	Analyzed	i	Dil Fac
Total Organic Carbon		1.0 U	J		1.0			mg/L					12/27/11 13	:30	1
- Lab Sample ID: LCS 680-224825/4										Clie	nt S	ample	ID: Lab Cor	ntrol S	ample
Matrix: Water													Prep ⊺y _l	pe: To	tal/NA
Analysis Batch: 224825															
				Spike		LCS	LCS	3					%Rec.		
Analyte				Added		Result	Qua	alifier	Unit		D	%Rec	Limits		
Total Organic Carbon				20.0		19.6			mg/L			98	80 - 120		
 Lab Sample ID: 680-74941-1 MS											С	lient Sa	imple ID: G	WE-5I	D-1211
Matrix: Water													Prep Ty	pe: To	tal/NA
Analysis Batch: 224825															
	Sample	Sampl	e	Spike		MS	MS						%Rec.		
Analyte		Qualifi	ier	Added		Result	Qua	alifier	Unit		D	%Rec	Limits		
Total Organic Carbon	16			20.0		35.7			mg/L			98	80 - 120		
Lab Sample ID: 680-74941-1 MSD											С	lient Sa	mple ID: G	WE-5[D-1 211
Matrix: Water													Prep Typ	oe: To	tal/NA
Analysis Batch: 224825															
	Sample	Sampl	e	Spike		MSD	MSI	D					%Rec.		RPD
Analyte		Qualifi	ier	Added		Result	Qua	alifier	Unit		D	%Rec	Limits	RPD	Limit
Total Organic Carbon	16			20.0		35.8						99	80 - 120		25

JAN 0 5 2012

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

GC/MS VOA					
Analysis Batch: 22391	0				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-74941-1	GWE-5D-1211	Total/NA	Water	8260B	
680-74941-3	4Q11 SUPP Trip Blank #1	Total/NA	Water	8260B	
LCS 680-223910/4	Lab Control Sample	Total/NA	Water	82608	
LCSD 680-223910/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223910/7	Method Blank	Total/NA	Water	8260B	
Analysis Batch: 22405	7				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-74941-1 - DL	GWE-5D-1211	Total/NA	Water	8260B	
LCS 680-224057/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-224057/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-224057/8	Method Blank	Total/NA	Water	8260B	
GC VOA					. <u>. </u>
Analysis Batch: 22368	5				
_		D T	Max-1	14.15	B B / 1
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method DOM 175	Prep Batch
680-74941-1	GWE-5D-1211	Total/NA	Water	RSK-175	
LCS 680-223685/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-223685/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-223685/1	Method Blank	Total/NA	Water	RSK-175	
Metals					
Prep Batch: 222847					
	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
—————————————————————————————————————	Client Sample ID GWE-5D-1211	Prep Type Total Recoverable	Matrix Water	Method 3005A	Prep Batch
Prep Batch: 222847					Prep Batch
Prep Batch: 222847 Lab Sample ID 680-74941-1	GWE-5D-1211	Total Recoverable	Water	3005A	Prep Batch
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2	GWE-5D-1211 GWE-5D-F(0.2)-1211	Total Recoverable Dissolved	Water Water	3005A 3005A	Prep Batch
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable	Water Water Water	3005A 3005A 3005A	Prep Batch
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable	Water Water Water	3005A 3005A 3005A	
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable	Water Water Water Water	3005A 3005A 3005A 3005A	Prep Batch
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 222956 Lab Sample ID	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 9 Client Sample ID	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type	Water Water Water Water Matrix	3005A 3005A 3005A 3005A Method	Prep Batch 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 9 Client Sample ID GWE-5D-1211	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable	Water Water Water Water Matrix Water	3005A 3005A 3005A 3005A Method 6010B	Prep Batch 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 222956 Lab Sample ID 680-74941-1 680-74941-2	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 9 Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved	Water Water Water Water Matrix Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B	Prep Batch Prep Batch 222847 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295: Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 9 Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable	Water Water Water Water Matrix Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B	Prep Batch 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 9 Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable	Water Water Water Water Matrix Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B	Prep Batch 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/1-A MB 680-222847/1-A General Chemistry Analysis Batch: 22281	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable	Water Water Water Matrix Water Water Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B 6010B	Prep Batch 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/1-A MB 680-222847/1-A General Chemistry Analysis Batch: 222811 Lab Sample ID	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissofved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissofved Total Recoverable Total Recoverable Total Recoverable	Water Water Water Water Matrix Water Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B	Prep Batch 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/1-A MB 680-222847/1-A General Chemistry Analysis Batch: 22281	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank GWE-5D-1211 GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Water Water Water Water Matrix Water Water Water Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B 6010B	Prep Batch 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/1-A MB 680-222847/1-A General Chemistry Analysis Batch: 222811 Lab Sample IO 680-74941-1	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank	Total Recoverable Dissofved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissofved Total Recoverable Total Recoverable Total Recoverable	Water Water Water Water Matrix Water Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B	Prep Batch 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A General Chemistry Analysis Batch: 222817 Lab Sample ID 680-74941-1 LCS 680-222817/15 MB 680-222817/14	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-5D-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Water Water Water Water Matrix Water Water Water Water Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B 6010B	Prep Batch 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A General Chemistry Analysis Batch: 222817 Lab Sample ID 680-74941-1 LCS 680-222817/15 MB 680-222817/14	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-5D-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Water Water Water Water Matrix Water Water Water Water Water Water Water Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B 6010B	Prep Batch 222847 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 222950 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A General Chemistry Analysis Batch: 222810 Lab Sample ID 680-74941-1 LCS 680-222817/14 Analysis Batch: 222817/14 Analysis Batch: 222837	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 9 Client Sample ID GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 7 Client Sample ID GWE-5D-1211 Lab Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total/NA Total/NA	Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B 6010B 353.2 353.2	Prep Batch 222847 222847 222847 222847
Prep Batch: 222847 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/2-A MB 680-222847/1-A Analysis Batch: 22295 Lab Sample ID 680-74941-1 680-74941-2 LCS 680-222847/1-A MB 680-222847/1-A General Chemistry Analysis Batch: 222817 Lab Sample ID 680-74941-1 LCS 680-222817/15 MB 680-222817/14 Analysis Batch: 222837 Lab Sample ID	GWE-5D-1211 GWE-5D-F(0.2)-1211 Lab Control Sample Method Blank 9 Client Sample ID GWE-5D-1211 GWE-5D-1211 Lab Control Sample Method Blank 7 Client Sample ID GWE-5D-1211 Lab Control Sample Method Blank 1 Client Sample ID Control Sample Method Blank	Total Recoverable Dissolved Total Recoverable Total Recoverable Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable Prep Type Total/NA Total/NA Prep Type	Water	3005A 3005A 3005A 3005A Method 6010B 6010B 6010B 6010B 353.2 353.2	Prep Batch 222847 222847 222847

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-222831/5	Method Blank	Total/NA	Water	310.1	
Inalysis Batch: 2230	03				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-74941-1	GWE-5D-1211	Total/NA	Water	375.4	
680-74941-1 MS	GWE-5D-1211	Total/NA	Water	375.4	
680-74941-1 MSD	GWE-5D-1211	Total/NA	Water	375.4	
LCS 680-223003/2	Lab Control Sample	Total/NA	Water	375.4	
MB 680-223003/1	Method Blank	Total/NA	Water	375.4	
nalysis Batch: 22410	00				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-74941-2	GWE-5D-F(0.2)-1211	Dissolved	Water	415.1	
CS 680-224100/2	Lab Control Sample	Dissolved	Water	415.1	
MB 680-224100/1	Method Blank	Dissolved	Water	415.1	
nalysis Batch: 22482	25				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-74941-1	GWE-5D-1211	Total/NA	Water	415.1	
680-74941-1 MS	GWE-5D-1211	Total/NA	Water	415.1	
680-74941-1 MSD	GWE-5D-1211	Total/NA	Water	415.1	
LCS 680-224825/4	Lab Control Sample	Total/NA	Water	415.1	
MB 680-224825/2	Method Blank	Total/NA	Water	415.1	
nalysis Batch: 22498	31				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
80-74941-1	GWE-5D-1211	Total/NA	Water	325.2	_
680- 74 941-1 MS	GWE-5D-1211	Total/NA	Water	325.2	
680-74941-1 MSD	GWE-5D-1211	Total/NA	Water	325.2	
			147.	-05-	
LCS 680-224981/2	Lab Control Sample	Total/NA	Water	325.2	

JAN 0 5 2012

Lab Chronicle

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Client Sample ID: GWE-5D-1211

Lab Sample ID: 680-74941-1

Date Collected: 12/05/11 11:40 Date Received: 12/06/11 11:07

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	 -	1	223910	12/16/11 01:21	MIC	TAL SAV
Total/NA	Analysis	8260B	ÐL	20	224057	12/19/11 17:39	RB	TAL SAV
Total/NA	Analysis	RSK-175		1	223685	12/14/11 23:22	SMC	TAL SAV
Total Recoverable	Prep	3005A			222847	12/07/11 09:59	RAM	TAL SAV
Total Recoverable	Analysis	8010B		1	222959	12/08/11 05:10	8CB	TAL SAV
Total/NA	Analysis	353.2		1	222817	12/06/11 15:49	JNC	TAL SAV
Total/NA	Analysis	310.1		1	222831	12/06/11 19:10	тн	TAL SAV
Total/NA	Analysis	375.4		10	223003	12/08/11 12:39	JR	TAL SAV
Tota!/NA	Analysis	415.1		1	224825	12/27/11 14:14	JR	TAL SAV
Total/NA	Analysis	325.2		2	224981	12/29/11 10:19	JR	TAL SAV

Client Sample ID: GWE-5D-F(0.2)-1211

Lab Sample ID: 680-74941-2

Matrix: Water

Date Collected: 12/05/11 11:40

Date Received: 12/06/11 11:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			222847	12/07/11 09:59	RAM	TAL SAV
Dissolved	Analysis	6010B		1	222959	12/08/11 05:05	BCB	TAL SAV
Dissolved	Analysis	415.1		1	224100	12/15/11 18:27	JR	TAL SAV

Client Sample ID: 4Q11 SUPP Trip Blank #1

Lab Sample ID: 680-74941-3

Matrix: Water

Date Collected: 12/05/11 00:00

Date Received: 12/06/11 11:07

		Batch	Batch		Dilution	Batch	Prepared		
ļ	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
ļ	Total/NA	Analysis	82608		1	223910	12/15/11 21:58	MIC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Savannah 5102 LaRoche Avenue

Savannah, GA' 31404 phone 912,354,7858 fax 912,352,0165

Chain of Custody Record

TestAmerican Interior

priorite 712,334.7636 12X 912,332.0103				6
Client Contact	Project Manager: Dave Palmer	Cite Contact: Nathan McNimban		LESTAMETICA LABORATORIES, INC.
URS Corporation	Tel/Fax: (314) 743-4154		Date: /3/5///	ľ
1001 Highlands Plaza Drive West. Suite 300		D Contact: Liuya Gunzia	Carrier:	- of -2 COCs
St. Louis, MO 63110	Calendar (C.) control (No. 1976)	_		Job No.
(314) 429-0100 Phone	TAT SCHOOL COM Bulen Control			71562723.0000/
	Tribular Tribular C	pA:		21562709.00003-MC
Project Name: 4Q11 Supplemental GW Sampling		9 18J		SDG No.
Site: Solutia WG Krummrich Facility		SL1 InS/2		
PO#		310.1 325.2 310.1 310.1		
Sample Identification	aldu	OCs by 82 oral Perhit IN/CO2 by Moride by 30 orales by 30		
6WE-5D ALL	Opri	D		Sample Specific Notes:
Į ř	D OO I			
1 .	7			
GWE-5D-1211-MED	74			
		1		
4011 SUPP Trin Blank #	13kthi			
Preservation Used: 1= Kee, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other		7 2 2		
Fossible Hazard Identification Non-Hazard	Poison B Unknown	nple Disposal (A fee may be	Ssessed if samples are retained	longer than 1 month)
Special Instructions/QC Requirements & Comments: Level 4 Data Package			Dispusal by Lab	-orMonths
				1494 r-089
Relinquished by:	Company	:	ļ	Emo 2-0°C, 1.4°C
	URS 19/5/11	1330 Keccived by (Lea) 200	Company	Date Cime. 1152
New roll	本	MEINER O DOUGHLU	Company T-D-C-D/	ٍ إ
	Company: Date (1) The:	Received by:	Company: B.	- 1
	-	,	Q 1	(2) OU(1)

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Login Sample Receipt Checklist

Job Number: 680-74941-1 Client: Solutia Inc. SDG Number: KPS069

List Source: TestAmerica Savannah

Login Number: 74941 List Number: 1 Creator: Daughtry, Beth

	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 and 1.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	5D MS/MSD cancelled by client; will submit on alt location.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





JAN 0 5 2012 MM

Certification Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

aboratory	Authority	Program	EPA Region	Certification ID
estAmerica Savarinah	A2LA	DoD ELAP		0399-01
estAmerica Savannah	A2LA	ISO/IEC 17025		399.01
estAmerica Savannah	Alabama	State Program	4	41450
estAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
estAmerica Savannah	Arkansas	State Program	6	88-0692
estAmerica Savannah	California	NELAC	9	3217CA
estAmerica Savannah	Colorado	State Program	8	N/A
estAmerica Savannah	Connecticut	State Program	1	PH-0161
estAmerica Savannah	Delaware	State Program	3	N/A
estAmerica Savannah	Florida	NELAC	4	E87052
estAmerica Savannah	Georgia	Georgia EPO	4	N/A
estAmerica Savannah	Georgia	State Program	4	803
estAmerica Savannah	Guam	State Program	9	09-005г
estAmerica Savannah	Hawaii	State Program	9	N/A
estAmerica Savannah	Illinois	NELAC	5	200022
estAmerica Savannah	Indiana	State Program	s	N/A
estAmerica Savannah	lowa	State Program	7	353
estAmerica Savannah	Кел tucky	Kentucky UST	4	18
estAmerica Savannah	Келтиску	State Program	4	90084
estAmerica Savannah	Louisiana	NELAC	6	30690
estAmerica Savannah	Louisiana	NELAC	6	LA100015
estAmerica Savannah	Maine	State Program	1	GA00006
stAmerica Savannah	Maryland	State Program	3	250
estAmerica Savannah	Massachusetts	State Program	1	M-GA006
stAmerica Savannah	Michigan	State Program	5	9925
estAmerica Savannah	Mississippi	State Program	4	N/A
estAmerica Savannah	Montana	State Program	8	CERT0081
estAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
estAmerica Savannah	New Jersey	NELAC	2	GA769
estAmerica Savannah	New Mexico	State Program	6	N/A
estAmerica Savannah	New York	NELAC	2	10842
stAmerica Savannah	North Carolina	North Carolina DENR	4	269
stAmerica Savannah	North Carolina	North Carolina PHL	4	13701
estAmerica Savannah	Oklahoma	State Program	6	9984
estAmerica Savannah	Pennsylvania	NELAC	3	68-00474
estAmerica Savannah	Puerto Rico	State Program	2	GA00006
estAmerica Savannah	Rhode Island	State Program	1	LAO00244
stAmerica Savannah	South Carolina	State Program	4	98001
estAmerica Savanлah	Tennessee	State Program	4	TN02961
stAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
estAmerica Savannah	USDA	USDA		SAV 3-04
stAmerica Savannah	Vermont	State Program	1	87052
stAmerica Savannah	Virginia	NELAC	3	460161
stAmerica Savannah	Virginia	State Program	3	302
stAmerica Savannah	Washington	State Program	10	C1794
estAmerica Savannah	West Virginia	West Virginia DEP	3	94
estAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
stAmerica Savannah	Wisconsin	State Program	5	999819810
estAmerica Savarinan	Wyoming	State Program State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

JAN 0 5 2012 TestAmerica Savannah

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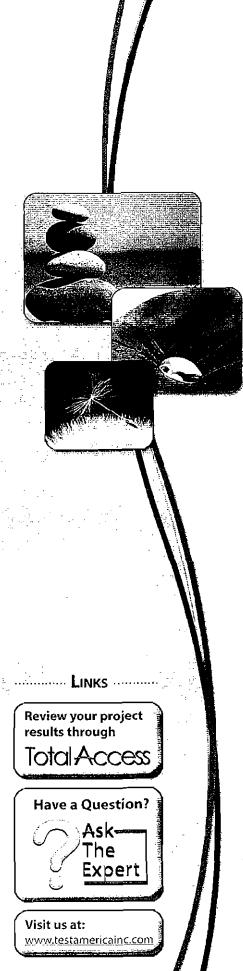
SDG KPS070

Results of Samples from Piezometers:

GWE-1D

GWE-2D

GWE-3D



<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-74941-2

TestAmerica Sample Delivery Group: KPS070

Client Project/Site: WGK Supp GW 4Q11 - DEC 2011

For:

Solutia Inc.

575 Maryville Centre Dr. Saint Louis, Missouri 63141

Attn: Mr. Jerry Rinaldi

Lidya Juliaia

Authorized for release by: 1/4/2012 5:37:05 PM

Lidya Gulizia Project Manager II lidya.gulizia@testamericainc.com

cc: Bob Billman

Carened on My

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Job ID: 680-74941-2

Laboratory: TestAmerica Savannah

Narrative

Job Narrative 680-74941-2

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223685 were outside control limits for Methane. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223650 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 375.4: The matrix spike(MS) recoveries for batch 223003 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Comments

EPA ARCHIVE DOCUMENT

No additional comments.

JAN 0 5 2012

Sample Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-74941-4	GWE-1D-1211 :	Water	12/05/11 14:35	12/06/11 11:07
680-74941-5	GWE-1D-F(0.2)-1211	Water	12/05/11 14:35	12/06/11 11:07
680-74941-6	GWE-2D-1211-EB	Water	12/05/11 15:00	12/06/11 11:07
680-74941-7	4Q11 SUPP Trip Blank #2	Water	12/05/11 00:00	12/06/11 11:07
680-74988-1	GWE-3D-1211	Water	12/06/11 09:10	12/07/11 12:30
680-74988-2	GWE-3D-F(0.2)-1211	Water	12/06/11 09:10	12/07/11 12:30
680-74988-3	GWE-3D-1211-AD	Water	12/06/11 09:10	12/07/11 12:30
680-74988-4	GWE-2D-1211	Water	12/06/11 10:35	12/07/11 12:30
680-74988-5	GWE-2D-F(0.2)-1211	Water	12/06/11 10:35	12/07/11 12:30
680-74988-6	4Q11 SUPP Trip Blank #3	Water	12/08/11 00:00	12/07/11 12:30

JAN 0 5 2012

Method Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
60108	Metals (ICP)	SW846	TAL SAV
310.1	Alkalinity	MCAWW	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
415.1	TOC	MCAWW	TAL SAV
415.1	DDC	MCAWW	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

JAN 0 5 2012

Definitions/Glossary

Client: Solutia Inc.

TestAmerica Job ID: 680-74941-2 Project/Site: WGK Supp GW 4Q11 - DEC 2011

SDG: KPS070

, , , , , , , , , , , , , , , , , , , ,	
Qualifiers	
GC/MS VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
GC VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
General Chen	nistry
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
\tilde{\	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

ŘL Reporting Limit RPD Relative Percent Difference, a measure of the relative difference between two points

Not detected at the reporting limit (or MDL or EDL if shown)

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Quality Control

Practical Quantitation Limit

ND

PQL

QC

Detection Summary

Client: Solutia Inc.

Dissolved Organic Carbon

3,1

Project/Site: WGK Supp GW 4Q11 - DEC 2011

Client Sample ID: GWE-1D-1211

TestAmerica Job ID: 680-74941-2

Lab Sample ID: 680-74941-4

SDG: KPS070

Analyte	Result 11	Qualifier	RL -	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene			1.0		ug/L	1		8260B	Total/NA
Chlorobenzene	11		1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.6		1.0		ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	4.0		1.0		ug/L	1		8260B	Total/NA
Methane	5.6		0.58		ug/L	1		RSK-175	Total/NA
Iron	19		0.050		mg/L	1		6010B	Total Recove
Manganese	0.53		0.010		mg/L	1		6010B	Total Recove
Chloride	70		1.0		mg/L	1		325.2	Total/NA
Nitrate as N	0,064		0.050		mg/L	1		353.2	Total/NA
Sulfate	300		50		mg/L	10		375.4	Total/NA
Total Organic Carbon	2.5		1.0		mg/L	1		41 5.1	Total/NA
Analyte		Qualifier	RL	RL	Unit	Dil Fac	_	Method	Prep Type
Alkalinity	460		5.0		mg/L	1		310.1	Total/NA
Carbon Dioxide, Free	28		5,0		mg/L	1		310.1	Total/NA
Client Sample ID: GWE-1D	-F(0.2)-1211					La	ab (Sample ID	: 680-74941-
- Analyte	Result	Qualifier	RL	MDL	Unit	Oil Fac	D	Method	Prep Type
Iron, Dissolved	18		0,050		mg/L		_	6010B	Dissolved
Manganese, Dissolved	0.52		0.010		mg/L	1		6010B	Dissolved
Dissolved Organic Carbon	2.5		1.0		mg/L	1		415.1	Dissolved
No Detections Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU		#2				La	ab \$	Sample ID	: 680-74941-
No Detections		#2				La	ab \$: 680-74941-
No Detections Lient Sample ID: 4Q11 SU No Detections	IPP Trip Blank	#2						Sample ID	
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D	IPP Trip Blank -1211	#2 Qualifier	RL	MDL	Unit		ab (Sample ID	
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte	IPP Trip Blank -1211		RL	MDL	Unit ug/L	La	ab (Sample ID	: 680-74988-
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene	IPP Trip Blank -1211 Result			MDL		La Dil Fac	ab S	Sample ID Sample ID	: 680-74988- Prep Type
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene	IPP Trip Blank -1211 Result		10	MDL	ug/L	La Dil Fac 10	ab S	Sample ID Sample ID Method 82608	Prep Type Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene	IPP Trip Blank -1211 Result 11 1200		10 10	MDL	ug/L ug/L	Dil Fac 10	ab S	Sample ID Sample ID Method 8260B 8260B	Prep Type Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1.2-Dichlorobenzene	PP Trip Blank -1211 Result 11 1200		10 10 10	MDL	ug/L ug/L ug/L	Dil Fac 10 10	ab :	Sample ID Sample ID Method 8260B 8260B 8260B	Prep Type Total/NA Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene Methane	PP Trip Blank -1211 Result 11 1200 11 84		10 10 10 10	MDL	ug/L ug/L ug/L ug/L	Dil Fac 10 10 10 10	ab s	Sample ID Sample ID Method 8260B 8260B 8260B 8260B	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene Methane	PP Trip Blank -1211 Result 11 1200 11 84 16		10 10 10 10 0.58	MDL	ug/L ug/L ug/L ug/L ug/L	Dil Fac 10 10 10 10	ab ;	Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese	PP Trip Blank 1-1211 Result 11 1200 11 84 16 12		10 10 10 10 0.58 0.050	MDL	ug/L ug/L ug/L ug/L ug/L mg/L	Dil Fac 10 10 10 10 10	dab ;	Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride	PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36		10 10 10 10 0.58 0.050	MDL	ug/L ug/L ug/L ug/L ug/L mg/L mg/L	Dil Fac 10 10 10 10 10 1 1	ab (Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B 6010B	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/Recove
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate	PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36 59		10 10 10 10 0.58 0.050 0.010	MDL	ug/L ug/L ug/L ug/L ug/L mg/L mg/L	Dil Fac 10 10 10 10 10 1 1 1	ab ;	Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B 6010B 325.2	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate Total Organic Carbon	P-1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8	Qualifier	10 10 10 0.58 0.050 0.010 1.0 25 1.0		ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L	Dil Fac 10 10 10 10 11 1 1 1 5	а р ;	Sample ID Method 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8250B 8325.2 375.4 415.1	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate Total Organic Carbon Analyte	P-1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8 Result		10 10 10 0.58 0.050 0.010 1.0 25 1.0	MDL	ug/L ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L	Dil Fac 10 10 10 10 11 1 1 1 5 1 Oil Fac	а р ;	Sample ID Sample ID Method 8260B 8260B 8260B 8260B 8260B RSK-175 6010B 6010B 325.2 375.4 415.1 Method	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove Total/NA Total/NA Total/NA Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate	P-1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8	Qualifier	10 10 10 0.58 0.050 0.010 1.0 25 1.0		ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L	Dil Fac 10 10 10 10 11 1 1 1 5	D	Sample ID Method 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8250B 8325.2 375.4 415.1	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene Methane Iron Manganese Chloride Sulfate Total Organic Carbon Analyte Alkalinity Carbon Dioxide, Free	PP Trip Blank 1-1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8 Result 410 21	Qualifier	10 10 10 0.58 0.050 0.010 1.0 25 1.0 RL		ug/L ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Dil Fac 10 10 10 10 1 1 1 1 1 1 5 1 Oil Fac	D D	Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B 6010B 325.2 375.4 415.1 Method 310.1	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate Total Organic Carbon Analyte Alkalinity Carbon Dioxide, Free Client Sample ID: GWE-3D	PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8 Result 410 21	Qualifier	10 10 10 0.58 0.050 0.010 1.0 25 1.0 RL 5.0	RL	ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L m	Dil Fac 10 10 10 10 1 1 1 1 1 5 1 Oil Fac 1	b S	Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B 6010B 325.2 375.4 415.1 Method 310.1 310.1 Sample ID	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove Total Recove Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate Total Organic Carbon Analyte Alkalinity Carbon Dioxide, Free Client Sample ID: GWE-3D Analyte	PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8 Result 410 21 -F(0.2)-1211 Result	Qualifier	10 10 10 10 0.58 0.050 0.010 1.0 25 1.0 RL 5.0 5.0		ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L Unit mg/L	Dil Fac Dil Fac Dil Fac Dil Fac Dil Fac	de de	Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B 6010B 325.2 375.4 415.1 Method 310.1 310.1 Sample ID	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA
No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene Methane Iron Manganese Chloride Sulfate Total Organic Carbon Analyte Alkalinity Carbon Dioxide, Free	PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8 Result 410 21	Qualifier	10 10 10 0.58 0.050 0.010 1.0 25 1.0 RL 5.0	RL	ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L m	Dil Fac 10 10 10 10 1 1 1 1 1 5 1 Oil Fac 1	D D	Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B 6010B 325.2 375.4 415.1 Method 310.1 310.1 Sample ID	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total Recove Total Recove Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA

1.0

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mg/L

TestAmerica Savannah

Dissolved

415.1

Detection Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Client Sample ID: GWE-3	Lab	Sample II): 680-74988-3			
Analyte	Result Qualifier	RL	MDL unit	Dil Fac D	Method	Prep Type
Benzene	11		ug/L	10	8260B	Total/NA
Chlorobenzene	1100	10	ug/L	10	8260B	Total/NA
1,2-Dichlorobenzene	11	10	ug/L	10	8260B	Total/NA
1,4-Dichlorobenzene	65	10	ug/L	10	8260B	Total/NA
Client Sample ID: GWE-2	D-1211 Result Qualifier		MDL Unit	Lab Dil Fac D	Sample II): 680-74988-4 Prep Type
Benzene	18	1.0	ug/L		8280B	Total/NA
Chlorobenzene	19	1.0	ug/L	1	8260B	Total/NA
1,2-Dichlorobenzene	1,2	1.0	ug/L	1	82608	Total/NA
1,4-Dichlorobenzene	2.9	1.0	ug/L	1	8260B	Total/NA
Methane	1,1	0.58	ug/L	1	RSK-175	Total/NA
	40	0.050	mg/L	1	6010B	Total Recover
Iron	18	0,050	iligic	•	00100	TOTAL TYCOCYCL

1.0

50

1,0

RL

5.0

5.0

mg/L

mg/L

mg/L

mg/L

mg/L

RL Unit

95

310

2.8

500

25

Result Qualifier

Client Sample	ID: GWE-2D-F	(0.2)-1211
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 Lab Sample	e ID: 680	-74988-5

325,2

375.4

415.1

310.1

310.1

10

Dil Fac D Method

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Ргер Туре
Iron, Dissolved	17	0.050	mg/L		6010B	Dissolved
Manganese, Dissolved	0.39	0.010	mg/L	1	6010B	Dissolved
Dissolved Organic Carbon	3.0	1.0	mg/L	1	415.1	Dissolved

Client Sample ID: 4Q11 SUPP Trip Blank #3

Lab Sample ID: 680-74988-6

No Detections

Chloride

Sulfate

Analyte

Alkalinity

Total Organic Carbon

Carbon Dioxide, Free

JAN 0 5 2012
TestAmerica Savannah

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-1D-1211 Lab Sample ID: 680-74941-4

Date Collected: 12/05/11 14:35 Date Received: 12/06/11 11:07 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			1.0		ug/L			12/16/11 00:58	1
Chlorobenzene	11		1.0		ug/L			12/16/11 00:58	1
1,2-Dichlorobenzene	1.6		1,0		ug/L			12/16/11 00:58	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/16/11 00:58	1
1,4-Dichlorobenzene	4.0		1.0		ug/L			12/16/11 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130					12/16/11 00:58	1
Dibromofluoromethane	87		70 - 130					12/16/11 00:58	1
Toluene-d8 (Surr)	112		70 - 13 0					12/16/11 00:58	1
Method: RSK-175 - Dissolve	ed Gases (GC)								
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1,1	U	1.1		ug/L			12/14/11 23:35	1
Ethylene	1.0	U	1.0		ug/L			12/14/11 23:35	1
Methane	5.6		0.58		ug/L			12/14/11 23:35	1
Method: 6010B - Metais (ICI	P) - Total Recoverat	ile							
Analyte	,	Qualifier	RL	MOL	Unit	D	Prepared	Analyzed	Dil Fac
lron			0.050		mg/L		12/07/11 09:59	12/08/11 05:15	
Manganese	0.53		0.010		mg/L		12/07/11 09:59	12/08/11 05:15	1
General Chemistry									
Ocheral Chemistry			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_	Result	Qualifier							
Analyte	Result 70	Qualifier	1.0		mg/L			12/29/11 10:04	1
Analyte Chloride		Qualifier			mg/L mg/L			12/29/11 10:04 12/06/11 15:51	1
Analyte Chloride Nitrate as N	70	Qualifier	1.0		*				1
Analyte Chloride Nitrate as N Sulfate	70 0.064	Qualifier	1.0 0.050		mg/L			12/06/11 15:51	1
Analyte Chloride Nitrate as N Sulfate Total Organic Carbon	70 0.064 300 2.5	Qualifier	1.0 0.050 5 0	RL	mg/L mg/L mg/L	D	Prepared	12/06/11 15:51 12/08/11 12:41	1
Analyte Chloride Nitrate as N Sulfate Total Organic Carbon Analyte Alkalinity	70 0.064 300 2.5		1.0 0.050 50 1.0	RL	mg/L mg/L mg/L	<u>D</u>	Prepared	12/06/11 15:51 12/08/11 12:41 12/27/11 14:54	1 10 1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-1D-F(0.2)-1211

Date Collected: 12/05/11 14:35 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-5

Matrix: Water

M	ethod: 6010B - Metals (ICP) - Dis	ssolved							
An	alyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iro	n, Dissolved	18	0,050		mg/L		12/07/11 09:59	12/08/11 05:00	1
Ma	nganese, Dissolved	0.52	0.010		mg/L		12/07/11 09:59	12/08/11 05:00	1
I'									

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepar	ed Analyzed	Dil Fac
Dissolved Organic Carbon	2.5		1.0		mg/L			12/15/11 18:27	1

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US EPA ARCHIVE DOCUMENT

Client Sample Results

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-2D-1211-EB

Date Collected: 12/05/11 15:00 Date Received: 12/06/11 11:07

Lab Sample ID: 680-74941-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			12/15/11 23:51	1
Chlorobenzene	1.0	U	1.0		ug/L			12/15/11 23:51	1
1,2-Dichlorobenzene	1.0	U	1.0		υg/L			12/15/11 23:51	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 23:51	1
1,4-Dichlorobenzene	1,0	U	1.0		ug/L			12/15/11 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 130			-		12/15/11 23:51	1
Dibromofluoromethane	90		70 ₋ 130					12/15/11 23:51	1
Toluene-d8 (Surr)	112		70 ₋ 130					12/15/11 23:51	1

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US EPA ARCHIVE DOCUMENT

Client Sample Results

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: 4Q11 SUPP Trip Blank #2

Date Collected: 12/05/11 00:00 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	Ū	1.0	.	ug/L			12/15/11 22:21	1
Chlorobenzene	1,0	U	1.0		ug/L			12/15/11 22:21	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 22:21	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 22:21	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 22;21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130			-		12/15/11 22:21	
Dibromofluoromethane	89		70 - 130					12/15/11 22:21	1
Toluena-d8 (Surr)	111		70 ₋ 130					12/15/11 22:21	1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Lab Sample ID: 680-74988-1

Matrix: Water

Client Sample ID: GWE-3D-1211
Date Collected: 12/06/11 09:10
Date Received: 12/07/11 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Oil Fac
Benzene	11		10		ug/L			12/20/11 13:16	10
Chlorobenzene	1200		10		ug/L			12/20/11 13:16	10
1,2-Dichlorobenzene	11		10		ug/L			12/20/11 13:16	10
1,3-Dīchlorobenzene	10	U	10		ug/L			12/20/11 13:16	10
1,4-Dichlorobenzene	64		10		ug/L			12/20/11 13:16	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130					12/20/11 13:16	10
Dibromofluoromethane	87		70 ₋ 130	•				12/20/11 13:16	10
Toluene-d8 (Surr)	107		70 - 130					12/20/11 13:16	10
Method: RSK-175 - Dissolved	d Gases (GC)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.1	<u>U</u>	1.1		ug/L			12/14/11 23:47	1
Ethylene	1.0	U	1,0		ug/L			12/14/11 23:47	1
								4044444400-47	
Methane	16		0.58		ug/L			12/14/11 23:47	1
		ıle	0.58		ug/L			12/14/11 23:4/	1
Method: 6010B - Metals (ICP) - Total Recoverab	ile Qualifier	0.58 RL	MOL	Unit	D	Prepared	12/14/11 23:4/ Analyzed	1 Díl Fac
Methane Method: 6010B - Metals (ICP Analyte) - Total Recoverab			MOL	-	<u>D</u>	Prepared 12/12/11 08:20		
Method: 6010B - Metals (ICP Analyte) - Total Recoverab		RL	MOL	Unit	<u>D</u>		Analyzed	Dii Fac
Method: 6010B - Metals (ICP Analyte Iron	r) - Total Recoverab		RL 	MOL.	Unit mg/L	<u>D</u>	12/12/11 08:20	Analyzed 12/14/11 04:29	DII Fac
Method: 6010B - Metals (ICP Analyte Iron Manganese General Chemistry	r) - Total Recoverab Result 12 0.36		RL 	MOL MDL	Unit mg/L mg/L	<u>D</u>	12/12/11 08:20	Analyzed 12/14/11 04:29	DII Fac
Method: 6010B - Metals (ICP Analyte Iron Manganese	r) - Total Recoverab Result 12 0.36	Qualifier	RL 0.050 0.010		Unit mg/L mg/L		12/12/11 08:20 12/12/11 08:20	Analyzed 12/14/11 04:29 12/14/11 04:29	DII Fac
Method: 6010B - Metals (ICP Analyte Iron Manganese General Chemistry Analyte Chloride	r) - Total Recoverable Result 12 0.36 Result	Qualifier	RL 0.050 0.010		Unit mg/L mg/L		12/12/11 08:20 12/12/11 08:20	Analyzed 12/14/11 04:29 12/14/11 04:29 Analyzed	DII Fac
Method: 6010B - Metals (ICP Analyte Iron Manganese General Chemistry Analyte Chloride Nitrate as N	P) - Total Recoverable Result 12 0.36 Result 59	Qualifier	RL 0.050 0.010 RL 1.0		Unit mg/L mg/L Unit mg/L		12/12/11 08:20 12/12/11 08:20	Analyzed 12/14/11 04:29 12/14/11 04:29 Analyzed 12/29/11 10:04	DII Fac
Method: 6010B - Metals (ICP Analyte iron Manganese General Chemistry Analyte Chloride Nitrate as N Sulfate	P) - Total Recoverable Result 12 0.36 Result 59 0.050	Qualifier	RL 0.050 0.010 RL 1.0 0.050		Unit mg/L mg/L Unit mg/L mg/L		12/12/11 08:20 12/12/11 08:20	Analyzed 12/14/11 04:29 12/14/11 04:29 Analyzed 12/29/11 10:04 12/07/11 16:55	Dil Fac Dil Fac Dil Fac
Method: 6010B - Metals (ICP Analyte Iron Manganese General Chemistry Analyte	Result 12 0.36 Result 59 0.050 170 2.8	Qualifier	RL 0.050 0.010 RL 1.0 0.050	MDL	Unit mg/L mg/L Unit mg/L mg/L mg/L mg/L		12/12/11 08:20 12/12/11 08:20	Analyzed 12/14/11 04:29 12/14/11 04:29 Analyzed 12/29/11 10:04 12/07/11 16:55 12/28/11 15:50	Dil Fac 1 1 1 Dil Fac 1 1 5
Method: 6010B - Metals (ICP Analyte Iron Manganese General Chemistry Analyte Chloride Nitrate as N Sulfate Total Organic Carbon	Result 12 0.36 Result 59 0.050 170 2.8	Qualifier Qualifier U	RL 0.050 0.010 RL 1.0 0.050 25 1.0	MDL	Unit mg/L mg/L Unit mg/L mg/L mg/L mg/L mg/L		12/12/11 08:20 12/12/11 08:20 Prepared	Analyzed 12/14/11 04:29 12/14/11 04:29 Analyzed 12/29/11 10:04 12/07/11 16:55 12/28/11 15:50 12/27/11 15:08	Dil Fac 1 1 1 Dil Fac 1 1 5 1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-3D-F(0.2)-1211 Lab Sample ID: 680-74988-2

Date Collected: 12/06/11 09:10 Date Received: 12/07/11 12:30 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dii Fa
Iron, Dissolved	13		0.050		mg/L		12/12/11 08:20	12/14/11 04:34	
Manganese, Dissolved	0.38		0.010		mg/L		12/12/11 08:20	12/14/11 04:34	
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Dissolved Organic Carbon	3.1		1.0		mg/L			12/27/11 13:20	

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-3D-1211-AD Lab Sample ID: 680-74988-3

Date Collected: 12/06/11 09:10 Matrix: Water

Date Received: 12/07/11 12:30

Analyte	Result	Qualifier	ŔĿ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			10		ug/L			12/20/11 13:45	10
Chlorobenzene	1100		10		ug/L			12/20/11 13:45	10
1,2-Dichlorobenzene	11		10		ug/L			12/20/11 13:45	10
1,3-Dichlorobenzene	10	U	10		ug/L			12/20/11 13:45	10
1,4-Dichlorobenzene	65		10		ug/L			12/20/11 13:45	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bramofluorobenzene	100		70 - 130			-		12/20/11 13:45	10
Dibromofluoromethane	92		70 - 130					12/20/11 13:45	10
Toluene-d8 (Surr)	106		70 ₋ 130					12/20/11 13:45	10

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TestAmerica Savannah

V

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-2D-1211 Lab Sample ID: 680-74988-4

Date Collected: 12/06/11 10:35 Date Received: 12/07/11 12:30 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18		1.0		ug/L			12/20/11 16:09	1
Chlorobenzene	19		1,0		ug/L			12/20/11 16:09	1
1,2-Dichlorobenzene	1.2		1.0		ug/L			12/20/11 16:09	1
1,3-Dichlorobenzene	1,0	U	1.0		ug/L			12/20/11 16:09	1
1,4-Dichlorobenzene	2.9		1,0		ug/L			12/20/11 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130					12/20/11 16:09	
Dibromofluoromethane	88		70 - 130					12/20/11 16:09	1
Toluene-d8 (Surr)	112		70 _ 130					12/20/11 16:09	1
- Method: RSK-175 - Dissolv	ed Gases (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1,1	Ū	1.1		ug/L			12/15/11 00:00	1
Ethylene	1,0	U	1.0		ug/L			12/15/11 00:00	1
Methane	1.1		0.58		ug/L			12/15/11 00:00	1
- Method: 6010B - Metals (ICI	P) - Total Recoverat	le							
Analyte	r	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	18	·	0.050		mg/L		12/12/11 08:20	12/14/11 04:39	1
Manganese	0.41		0.010		mg/L		12/12/11 06:20	12/14/11 04:39	1
General Chemistry									
•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit mg/L	D	Prepared	Analyzed 12/29/11 10:04	Dil Fac
Analyte Chloride				MDL		D	Prepared		
Analyte Chloride Nitrate as N	95		1.0	MDL	mg/L	D	Prepared	12/29/11 10:04	1
General Chemistry Analyte Chloride Nitrate as N Sulfate Total Organic Carbon	9 5 0.050		1.0 0.050	MDL	mg/L mg/L	D	Prepared	12/29/11 10:04 12/07/11 16:57	1
Analyte Chloride Nitrate as N Sulfate	95 0.050 310 2.8		1.0 0.050 50		mg/L mg/L mg/L	D_	Prepared Prepared	12/29/11 10:04 12/07/11 16:57 12/26/11 15:54	1 1 10
Analyte Chloride Nitrate as N Sulfate Total Organic Carbon	95 0.050 310 2.8	U	1.0 0.050 50 1.0		mg/L mg/L mg/L mg/L	_ - -		12/29/11 10:04 12/07/11 16:57 12/26/11 15:54 12/27/11 15:22	1 1 10 1

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-2D-F(0.2)-1211 Lab Sample ID: 680-74988-5

Date Collected: 12/06/11 10:35 Date Received: 12/07/11 12:30 Matrix: Water

Method: 6010B - Metals (ICP) - Diss Analyte		Qualifier	RL	MDL	Unit	Ď	Prepared	Analyzed	Dil Fac
Iron, Dissolved	17		0.050		mg/L		12/12/11 08:20	12/14/11 04:54	
Manganese, Dissolved 	0.39		0,010		mg/L		12/12/11 08:20	12/14/11 04:54	1
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	Ď	Prepared	Analyzed	Oil Fac
Dissolved Organic Carbon	3.0		1.0		mg/L			12/27/11 13:20	

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: 4Q11 SUPP Trip Blank #3

Date Collected: 12/06/11 00:00 Date Received: 12/07/11 12:30 Lab Sample ID: 680-74988-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
Chlorobenzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
1,3-Dichlorobenzene	1.0	U	1,0		ug/L			12/12/11 22:53	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		70 - 130			-		12/12/11 22:53	1
Dibromofluoromethane	99		70 - 130					12/12/11 22:53	1
Toluene-d8 (Surr)	103		70 . 130					12/12/11 22:53	1

Surrogate Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS)

Prep Type: Total/NA Matrix: Water

				Percent Surroga	ate Recovery (Acceptance Limits)
		BF B	DBFM	TOL	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	
80-74941-4	GWE-1D-1211	96	87	112	
80-74941-6	GWE-2D-1211-EB	92	90	112	
80-74941-7	4Q11 SUPP Trip Blank #2	93	89	111	
80-74988-1	GWE-3D-1211	98	87	107	
0-74968-3	GWE-3D-1211-AD	100	92	106	
80-74968 - 4	GWE-2D-1211	95	88	112	
0-74988-4 MS	GWE-2D-1211	101	95	103	
0-74988-4 MSD	GWE-2D-1211	99	93	104	
0-74988-6	4Q11 SUPP Trip Blank #3	102	99	103	
CS 680-223436/3	Lab Control Sample	96	101	96	
CS 680-223910/4	Lab Control Sample	105	96	104	
CS 680-224198/4	Lab Control Sample	102	96	101	
CSD 680-223436/4	Lab Control Sample Dup	102	105	99	
CSD 680-223910/5	Lab Control Sample Dup	104	96	103	
CSD 680-224198/5	Lab Control Sample Dup	105	99	104	
B 680-223436/6	Method Blank	102	101	102	
B 680-223910/7	Method Blank	94	88	109	
B 680-224198/7	Method Blank	100	93	106	

Surrogate Legend

BFB = 4-Bromofluorobenzene

D8FM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

A ARCHIVE DOCUMENT

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Prep Type: Total/NA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223436/6 Client Sample ID: Method Blank Matrix: Water

Analysis Batch: 223436

-	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	ug/L			12/12/11 19:29	1
Chlorobenzene	1.0	U	1.0	ug/L			12/12/11 19:29	1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L			12/12/11 19:29	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			12/12/11 19:29	1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			12/12/11 19:29	1
l .								

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene 102 70 - 130 12/12/11 19:29 Dibromofluoromethane 101 70 - 130 12/12/11 19:29 Toluene-d8 (Sum) 102 70 - 130 12/12/11 19:29



Lab Sample ID: LCS 680-223436/3

Matrix: Water

Analysis Batch: 223436

		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	50.0	48.9		ug/L		98	70 - 130	
	Chlorobenzene	50.0	49.5		ug/L		99	70 - 130	
	1,2-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130	
	1,3-Dichlorobenzene	50,0	49.2		ug/L		98	70 - 130	
l	1,4-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 130	
ı									

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Sum)	95		70 - 130

Lab Sample ID: LCSD 680-223436/4

Matrix: Water

Analysis Batch: 223436

Client Sample ID: Lab	Control Sample Dup
	Pren Tyne: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit Limits Limit Benzene 50.0 50.9 102 70 _ 130 30 ug/L Chlorobenzene 50.0 51.7 ug/L 103 70 - 130 30 1,2-Dichlorobenzene 50.0 51.5 70.130 ug/L 103 30 50.0 1,3-Dichlorobenzene 51.6 70 - 130 ug/L 103 30 1,4-Dichlorobenzene 50.0 51.0 102 70 - 130 30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	105		70.130
Toluene-d8 (Surr)	99		70 - 130

1.0 U

Lab Sample ID: MB 680-

Matrix: Water

Analyte

Benzene

Analysis Batch: 223910

0-223910/7							Client Sample ID: Met				
								Prep Type:	Total/NA		
0											
	MB	MB									
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		

ug/L

TestAmerica Savannah

12/15/11 21:36

1.0

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-223910/7

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 223910

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:36	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:36	1
1,3-Dichlorobenzene	1,0	U	1.0		ug/L			12/15/11 21:36	1
1,4-Dichlorobenzene	1,0	U	1.0		ug/L			12/15/11 21:36	1
	мв	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed .	Dil Fac
4-Bromofluorobenzene	94		70 - 130			_		12/15/11 21:36	
Dibromofluoromethane	88		70 - 130					12/15/11 21:36	1
Toluene-d8 (Surr)	109		70 - 130					12/15/11 21:36	1

Lab Sample ID: LCS 680-223910/4 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 223910

	Spike	LCS	LCS				%Re <i>c.</i>	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	52.3		ug/L		105	70 - 130	
Chlorobenzene	50.0	51.0		ug/L		102	70 _ 130	
1,2-Dichlorobenzene	50.0	53.8		ug/L		108	70 - 130	
1,3-Dichlorobenzene	50,0	52.7		ug/L		105	70 - 130	
1,4-Dichlorobenzene	50.0	52.5		ug/L		105	70.130	

	LUS	rc2	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	104		70 . 130

Lab Sample ID: LCSD 680-223910/5 Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA

Analysis Batch: 223910

	Spike	LCSD	LCSD			%Rec.		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	50.0	51.4	ug/L		103	70 - 130	2	30
Chlorobenzene	50.0	50.7	ug/L		101	70 - 130	1	30
1,2-Dichlorobenzene	50.0	53.0	ug/L		106	70 - 130	1	30
1,3-Dichlorobenzene	50,0	51.6	ug/L		103	70 - 130	2	30
1,4-Dichlorobenzene	50.0	\$1.8	ug/L		104	70 _ 130	1	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Svrr)	103		70 . 130

Lab Sample ID: MB 680-224198/7

Matrix: Water

Client Sample ID: Method Blank
Prep Type: Total/NA

Analysis Batch: 224198

	MID	WD							
Analyte	Result		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			12/20/11 12:48	1
Chlorobenzene	1.0	U	1,0		ug/L			12/20/11 12:48	1

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

мв мв

Lab Sample ID: MB 680-224198/7 Client Sample ID: Method Blank Matrix: Water

Prep Type: Total/NA

Analysis Batch: 224198

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	Ū	1.0		ug/L			12/20/11 12:48	
1,3-Dichlorobenzene	1.0	υ	1.0		ug/L			12/20/11 12:48	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/ L			12/20/11 12:48	1
	мв	мв							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130			_		12/20/11 12:48	1
Dibromofluoromethane	93		70 ₋ 130					12/20/11 12:48	1
Toluene-d8 (Surr)	106		70 - 130					12/20/11 12:48	1

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Lab Sample ID: LCS 680-224198/4

Matrix: Water

Analysis Batch: 224198

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Benzene	50.0	52.0	ug/L		104	70 - 130	
Chlorobenzene	50.0	48.5	ug/L		97	70 - 130	
1,2-Dichlorobenzene	50,0	51,1	ug/L		102	70 - 130	
1,3-Dichlorobenzene	50,0	50.1	ug/L		100	70 - 130	
1,4-Dichlorobenzene	50.0	49.8	ug/L		100	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 102 70 - 130 Dibromofluoromethane 96 70 - 130 101 70 - 130 Toluene-d8 (Surr)

Lab Sample ID: LCSD 680-224198/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Matrix: Water

Analysis Batch: 224198

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50.0	53.5		ug/L		107	70 - 130	3	30
Chlorobenzene	50.0	51.2		ug/L		102	70 - 130	5	30
1,2-Dichlorobenzene	50.0	54.6		ug/L		109	70 - 130	7	30
1,3-Dichlorobenzene	50.0	52.2		ug/L		104	70 - 130	4	30
1,4-Dichlorobenzene	50.0	53.1		ug/L		106	70 - 130	6	30

LCSD LCSD Surrogate %Recovery Qualifier 105 70 - 130 4-Bromofluorobenzene Dibromofluoromethane 99 70 - 130 70 - 130 Toluene-d8 (Surr) 104

Lab Sample ID: 680-74988-4 MS Client Sample ID: GWE-2D-1211 Prep Type: Total/NA Matrix: Water

Analysis Batch: 224198

Hilliggia Daton, ELATO									
· !	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	18		50,0	72,2		ug/L		108	70.130
Chlorobenzene	19		50.0	69.7		ug/L		101	70 ₋ 130
1,2-Dichlorobenzene	1.2		50.0	51.8		ug/L		101	70 ₋ 130

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-74988-4 MS Client Sample ID: GWE-2D-1211 Matrix: Water Prep Type: Total/NA

Analysis Batch: 224198

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1.0 U 50.0 51.0 1.3-Dichlorobenzene ug/L 101 70 - 130 1,4-Dichlorobenzene 29 50.0 53.9 ug/L 102 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 101 70 - 130 Dibromofluoromethane 95 70 - 130 Toluene-d8 (Sum) 103 70.130

Lab Sample ID: 680-74988-4 MSD

Matrix: Water

Analysis Batch: 224198

Client Sample ID: GWE-2D-1211

Prep Type: Total/NA

,, 5.15 <u>Dato</u> <u></u>	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	18		50.0	70.9		ug/L		105	70 - 130	2	30
Chlorobenzene	19		50.0	68.2		ug/L		98	70 - 130	2	30
1,2-Dichlorobenzene	1.2		50.0	51.4		ug/L		100	70 - 130	1	30
1,3-Dichlorobenzene	1.0	U	50.0	49.9		ug/L		100	70 - 130	2	30
1,4-Dichlorobenzene	2.9		50.0	53,1		ug/L		100	70 - 130	1	30

MSD MSD %Recovery Limits Surrogate Qualifier 70 - 130 4-Bromofluorobenzene qq Dibromofluoromethane 93 70 - 130 Toluene-d8 (Surr) 104 70 - 130

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-223685/1 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Analysis Batch: 223685

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Ethane 1.1 U 1.1 ug/L 12/14/11 21:36 Ethylene 1.0 U 1.0 12/14/11 21:36 ug/L Methane 0.58 U 0.58 ug/L 12/14/11 21:36

Lab Sample ID: LCS 680-223685/3 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 223685

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Ethane 282 263 ug/L 93 75 - 125 Ethylene 271 256 75 - 125 ug/L 94 Methane 153 147 ug/L 96 75 - 125

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Lab Sample ID: LCSD 680-223685/4 Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA Analysis Batch: 223685 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Ethane 282 312 ug/L 111 75 - 125 17 30 Ethylene 271 297 ug/L 75 - 125 15 110 30

173

ug/L

153

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-222847/1-A

Matrix: Water

Methane

Analysis Batch: 222959

Client Sample ID: Method Blank

75 - 125

113

Prep Type: Total Recoverable

Prep Batch: 222847

16

30

İ		мв	MB							
١	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
I	Iron	0.050	U	0,050		mg/L		12/07/11 09:59	12/08/11 03:09	1
	Iron, Dissolved	0.050	U	0.050		mg/L		12/07/11 09:59	12/08/11 03:09	1
	Manganese	0.010	U	0.010		mg/L		12/07/11 09:59	12/08/11 03:09	1
	Manganese, Dissolved	0.010	U	0.010		mg/L		12/07/11 09:59	12/08/11 03:09	1

Lab Sample ID: LCS 680-222847/2-A

Matrix: Water

Analysis Batch: 222959

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable

Prep Batch: 222847

	Spike	LCS	LC S				%Rec.	
Analyte	Added	Result	Qualifier	Unit	Đ	%Rec	Limits	
Iron	1.00	0.929		mg/L	_	93	75 - 125	
Iron, Dissolved	1.00	0.929		mg/L		93	75 - 125	
Manganese	0.500	0.472		mg/L		94	75 - 125	
Manganese, Dissolved	0.500	0.472		mg/L		94	75 - 125	

Lab Sample ID: MB 680-222916/1-A

Matrix: Water

Analysis Batch: 223594

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 222916

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dìl Fac
Ігол	0.050	Ü	0.050		mg/L		12/07/11 17:20	12/14/11 02:53	1
Iron, Dissolved	0.050	U	0.050		mg/L		12/07/11 17:20	12/14/11 02:53	1
Manganese	0.010	U	0.010		mg/L		12/07/11 17:20	12/14/11 02:53	1
Manganese, Dissolved	0,010	U	0.010		ma/L		12/07/11 17:20	12/14/11 02:53	1

Lab Sample ID: LCS 680-222916/2-A

Matrix: Water

Analysis Batch: 223594

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 222916

- 1	Allalysis Datoll. 220004							11000	dicin. LLLU
		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Iron	1.00	1,05	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mg/L		105	75 ₋ 125	
	Iron, Dissolved	1.00	1.05		mg/L		105	75 - 125	
ļ	Manganese	0.500	0.529		mg/L		106	75 - 125	
	Manganese, Dissolved	0.500	0.529		mg/L		106	75 . 125	

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 310.1 - Alkalinity													
Lab Sample ID: MB 680-222831/5 Matrix: Water									C	lient Sa	mple ID: I Prep T		
Analysis Batch: 222831													
		MB						_	_				
Analyte		Qualifier		RL		RL Unit		D _	Pre	pared	Analyz		Dil Fa
Alkalinity	5.0			5.0		mg/L					12/06/11		
Carbon Dioxide, Free	5.0	U		5.0		mg/L					12/06/11	18:02	•
Lab Sample ID: LCS 680-222831/6								Cli	ent S	ample	ID: Lab Co		
Matrix: Water											Prep T	ype: To	tal/NA
Analysis Batch: 222831													
			Spike		LCS				_		%Rec.		
Analyte			Added			Qualifier	Unit		D	%Rec	Limits		
Alkalinity -			183		176		mg/L			96	80 _ 120		
Lab Sample ID: LCSD 680-222831/19							Cli	ent S	Samp	le ID: L	ab Contro	l Samp	le Dup
Matrix: Water											Prep T	ype: To	tal/NA
Analysis Batch: 222831													
			Spike		LCSD						%Rec.		RPE
Analyte			Added			Qualifier	Unit		_ D	%Rec	Limits	RPD	Limi
Alkalinity			183		163		mg/L			89	80 - 120	8	30
Lab Sample ID: MB 680-223199/5									С	lient Sa	mple ID: I	/lethod	Blank
Matrix: Water											Prep Ty	pe: To	tal/NA
Analysis Batch: 223199													
Analyte		MB Qualifier		RL	1	RL Unit		D	Pre	pared	Analyz	ed he	Dil Fac
Alkalinity	5.0			5.0	<u></u>	mg/L		<u> </u>			12/09/11 1		
Carbon Dioxide, Free	5.0			5.0		mg/L					12/09/11 1	6:35	•
Lab Sample ID: LCS 680-223199/7								Cli	ant S	i alama	ID: Lab Co	ntral S	amala
Matrix: Water								٥,,	CIII C	ampic	Prep Ty		
Analysis Batch: 223199											T TOP 1	, pc. 10	Lanter
Analysis Batom 225100			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Alkalinity			183		163		mg/L			89	80 - 120		
Lab Sample ID: LCSD 680-223199/33							Cli	ent S	Samp	le ID: La	ab Control	Samp	le Duc
Matrix: Water									-		Prep Ty	-	•
Analysis Batch: 223199													
,a., 0.0 2 a.o ==0 100			Spike		LCSD	LCSD					%Rec.		RPD
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Alkalinity			183		163		mg/L		_	89	80 - 120	0	30
Method: 325.2 - Chloride	· •												
Lab Sample ID: MB 680-224981/35									С	lient Sa	mple ID: I	/lethod	Blank
Matrix: Water									J		Prep Ty		
Analysis Batch: 224981											· · · · ·		
Alidiyala Dalcii. 224501													
Alialysis Datoli. 224501	MB	MB											
Analyte		MB Qualifier		RL	МІ	OL Unit		D	Prej	pared	Analyz	ed	Dil Fac

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

12/06/11 15:41

Client Sample ID: Lab Control Sample

SDG: KPS070

Method: 325.2 - Chloride (Contir	nued)										
Lab Sample ID: LCS 680-224981/2								Client	Sample	ID: Lab Contro	اد Sample
Matrix: Water										Prep Type:	Total/NA
Analysis Batch: 224981										_	
•			Spike		LCS	LCS				%Rec.	
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			50.0		51.3		mg/L		103	85 - 115	
Method: 353.2 - Nitrogen, Nitrate	∍-Nitrite										
Lab Sample ID: MB 680-222817/14								C	Client Sa	ample ID: Meth	iod Blank
Matrix: Water										Prep Type:	Total/NA
Analysis Batch: 222817											
•	MB	MB									
Analyte	Result	Qualifier		RL	М	DL Unit		D Pre	epared	Analyzed	Dil Fac

Matrix: Water							Prep Type: Total/NA
Analysis Batch: 222817							
	Spike	LCS	LC5				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Nitrate as N	0.497	0,503		mg/L		101	90 - 110
Nitrate Nitrite as N	0,998	1.00		mg/L		100	90 - 110
Nitrite as N	0.502	0,499		mg/L		99	90 - 110

0.050

mg/L

Lab Sample ID: MB 680-222914/14 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

0.050 U

Nitrate as N

Analysis Batch: 222914

Lab Sample ID: LCS 680-222817/15

MR MR Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac 0.050 U 0,050 12/07/11 16:49 Nitrate as N mg/L

Lab Sample ID: LCS 680-222914/15 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 222914 Spike LCS LCS %Rec. Analyte Added Unit %Rec Limits Result Qualifier 0.497 0.504 mg/L 90 - 110 Nitrate as N 102 mg/L Nitrate Nitrite as N 0.998 0,997 100 90 - 110 0.502 90 - 110 Nitrite as N 0.493 mg/L

Method: 375.4 - Sulfate

Lab Sample ID: MB 680-223003/1 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA Analysis Batch: 223003

мв мв Result Qualifier RL MDL Unit Prepared Analyte Analyzed Dil Fac 5.0 Sulfate 5.0 Ų mg/L 12/08/11 12:37

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

	ed)					=		-	_			
Lab Sample ID: LCS 680-223003/2								Cli	ent S	ample	ID: Lab Control	Sampl
Matrix: Water											Prep Type: `	Total/N
Analysis Batch: 223003												
			Spike		LCS	LCS					%Rec.	
Analyte			Added		Result	Qualifier	Unit		0	%Rec	Limits	
Sulfate			20,0		19.3		mg/L			96	75 - 125	
Lab Sample ID: MB 680-224897/1 Matrix: Water									С	lient Sa	ample (D: Metho	
Analysis Batch: 224897												
	MB	MB										
Analyte	Result	Qualifier		RL	ME	L Unit		D	Prep	pared	Analyzed	Dil Fa
Sulfate	5.0	U		5.0		mg/L					12/28/11 15:20	-
Lab Sample ID: LCS 680-224897/2 Matrix: Water								Cli	ent S	ample	ID: Lab Control Prep Type:	-
Analysis Batch: 224897												
- · · · · · · · · · · · · · · · · · · ·			Spike		LCS	LCS					%Rec.	
Analyte			Added			Qualifier	Unit		D	%Rec	Limits	
Sulfate			20.0		18,8		mg/L		·	94	75 . 125	
- Canale			20.0		10.0		g, L				,01120	
lethod: 415.1 - DOC												
Lab Sample ID: MB 680-224100/1									CI	ient Sa	mple ID: Metho	
Matrix: Water											Prep Type: Di	issolve
Analysis Batch: 224100												
	RAID.	MB										
	MB	IND										
Analyte		Qualifier		RL	ME	L Unit		0	Prep	ared	Analyzed	Dil Fa
	Result			RL 1.0	MC	Unit mg/L		<u>o</u> _	Prep	ared	Analyzed 12/15/11 18:27	
Dissolved Organic Carbon	Result	Qualifier			MC						12/15/11 18:27	
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2	Result	Qualifier			ME						12/15/11 18:27 ID: Lab Control	Sample
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water	Result	Qualifier			MC						12/15/11 18:27	Sample
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water	Result	Qualifier	Spike			mg/L					12/15/11 18:27 ID: Lab Control Prep Type: Di	Sample
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100	Result	Qualifier	Spike Added		LCS	mg/L	Unit		ent S	ample l	12/15/11 18:27 ID: Lab Control Prep Type: Di	Sample
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte	Result	Qualifier	Added		LCS Result	mg/L	Unit ma/l			ample	12/15/11 18:27 ID: Lab Control Prep Type: Di **Rec. Limits	Sample
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte	Result	Qualifier	•		LCS	mg/L	Unit mg/L		ent S	ample l	12/15/11 18:27 ID: Lab Control Prep Type: Di	Sample
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon	Result	Qualifier	Added		LCS Result	mg/L			ent S	ample	12/15/11 18:27 ID: Lab Control Prep Type: Di **Rec. Limits	Sample
Analyte Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Method: 415.1 - TOC Lab Sample ID: MB 680-224825/2	Result	Qualifier	Added		LCS Result	mg/L			D _	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di **Rec. Limits	Sample
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Method: 415.1 - TOC Lab Sample ID: MB 680-224825/2	Result	Qualifier	Added		LCS Result	mg/L			D _	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di %Rec. Limits 80 - 120	Sample state of the
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Method: 415.1 - TOC	Result	Qualifier	Added		LCS Result	mg/L			D _	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di %Rec. Limits 80 - 120	Sample ssolved
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon lethod: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water	Result	Qualifier U	Added		LCS Result	mg/L			D _	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di %Rec. Limits 80 - 120	Sample ssolved
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon lethod: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water Analysis Batch: 224825	Result 1.0	Qualifier U	Added	1.0	LCS Result 19.4	mg/L			D C	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di %Rec. Limits 80 - 120	Sample issolved
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Lethod: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water Analysis Batch: 224825	Result 1.0	Qualifier U	Added	1.0	LCS Result 19.4	mg/L LCS Qualifier		Clid	D C	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di **Rec. Limits 80 - 120 Imple ID: Methor Prep Type: 1	Sampleissolver
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon lethod: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water Analysis Batch: 224825 Analyte Total Organic Carbon	Result 1.0	Qualifier U	Added	1.0	LCS Result 19.4	mg/L LCS Qualifier		Clid	D C	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di **Rec. Limits 80 - 120 Imple ID: Methor Prep Type: 1	Samplissolve
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Lethod: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water Analysis Batch: 224825 Analyte Total Organic Carbon Lab Sample ID: LCS 680-224825/4	Result 1.0	Qualifier U	Added	1.0	LCS Result 19.4	mg/L LCS Qualifier		Clid	D C	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di %Rec. Limits 80 - 120 Imple ID: Methor Prep Type: 1 Analyzed 12/27/11 13:30 ID: Lab Control	Sample issolved
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Lethod: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water Analysis Batch: 224825 Analyte Total Organic Carbon Lab Sample ID: LCS 680-224825/4 Matrix: Water	Result 1.0	Qualifier U	Added	1.0	LCS Result 19.4	mg/L LCS Qualifier		Clid	D C	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di **Rec. Limits 80 - 120 **Imple ID: Methor Prep Type: 1 Analyzed 12/27/11 13:30	Sample issolved
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Lethod: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water Analysis Batch: 224825 Analyte Total Organic Carbon Lab Sample ID: LCS 680-224825/4 Matrix: Water	Result 1.0	Qualifier U	Added 20.0	1.0	LCS Result 19.4	mg/L LCS Qualifier		Clid	D C	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di %Rec. Limits 80 - 120 Imple ID: Methor Prep Type: 1 Analyzed 12/27/11 13:30 ID: Lab Control Prep Type: 1	Sample issolved
Dissolved Organic Carbon Lab Sample ID: LCS 680-224100/2 Matrix: Water Analysis Batch: 224100 Analyte Dissolved Organic Carbon Method: 415.1 - TOC Lab Sample ID: MB 680-224825/2 Matrix: Water	Result 1.0	Qualifier U	Added	1.0	LCS Result 19.4	mg/L LCS Qualifier LL Unit mg/L		Clid	D C	%Rec 97	12/15/11 18:27 ID: Lab Control Prep Type: Di %Rec. Limits 80 - 120 Imple ID: Methor Prep Type: 1 Analyzed 12/27/11 13:30 ID: Lab Control	od Blank Fotal/NA Dil Fac

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TestAmerica Savannah

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Analysis Batch: 22343	36				
- Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
680-74966-6	4Q11 SUPP Trip 8lank #3	Total/NA	Water	8260B	
LCS 680-223436/3	Lab Control Sample	Total/NA	Water	6260B	
LCSD 680-223436/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223436/6	Method Blank	Total/NA	Water	8260B	
 Analysis Batch: 22391	0				
– Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
680-74941-4	GWE-1D-1211	Total/NA	Water	82608	
680-74941-6	GWE-2D-1211-EB	Total/NA	Water	82808	
680-74941-7	4Q11 SUPP Trip Blank #2	Total/NA	Water	8260B	
LCS 680-223910/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223910/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223910/7	Method Blank	Total/NA	Water	8260B	
- Analysis Batch: 22419	8				
- Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
680-74988-1	GWE-3D-1211	Total/NA	Water	8260B	
680-74988-3	GWE-3D-1211-AD	Total/NA	Water	82603	
680-74988-4	GWE-2D-1211	Total/NA	Water	82608	
680-74988-4 MS	GWE-2D-1211	Total/NA	Water	82808	
680-74988-4 MSD	GWE-2D-1211	Total/NA	Water	8280B	
LCS 680-224198/4	Lab Control Sample	Total/NA	Water	8260B	
	·				
LCSD 680-224198/5	Lab Control Sample Dup	Total/NA	Water	8260B	
M8 680-224198/7	Method Blank	Total/NA	Water	8260B	·
MB 680-224198/7 GC VOA	Method Blank		Water	8260B 	- <u></u>
GC VOA			Water	8260B 	
GC VOA			Water	8260B	Prep Bato
GC VOA Analysis Batch: 22368	5	Total/NA		- -	Prep Bato
GC VOA Analysis Batch: 22368 Lab Sample ID	5 Client Sample ID	Total/NA	Matrix		Prep Bato
GC VOA Analysis Batch: 22368 Lab Sample ID 680-74941-4	Client Sample ID GWE-1D-1211	Total/NA Prep Type Total/NA	Matrix Water	Method	Prep Bato
GC VOA Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1	Client Sample ID GWE-1D-1211 GWE-3D-1211	Total/NA Prep Type Total/NA Total/NA	Matrix Water Waler	Method RSK-175 RSK-175	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4	5 Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211	Total/NA Prep Type Total/NA Total/NA Total/NA	Matrix Water Water Water	Method RSK-175 RSK-175 RSK-175	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175	Prep Batc
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	Prep Batc
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	Prep Batc
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 MB 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/RA	Matrix Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 MB 680-223685/1 Aletals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/RA Total/NA Total/NA	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A MB 680-222847/1-A	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample	Prep Type Total/NA	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A M8 680-222847/1-A	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample	Prep Type Total/NA	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A MB 680-222847/1-A	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/Recoverable Dissolved Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Matrix Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 And And And And And And And And And And	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A MB 680-222847/1-A Prep Batch: 222916 Lab Sample ID	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Ask-175 Method 3005A 3005A 3005A 3005A	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A Prep Batch: 222916 Lab Sample ID 680-74988-1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-3D-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Method 3005A 3005A 3005A 3005A	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A Prep Batch: 222916 Lab Sample ID 680-74988-1 680-74988-1 680-74988-2	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-3D-17-10 GWE-3D-17-11 GWE-3D-17-11 GWE-3D-17-11	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Matrix Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Method 3005A 3005A 3005A 3005A 3005A 3005A 3005A	Prep Batc

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Metals (Continued	<u> </u>				
Prep Batch: 222916 (C	ontinued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
MB 680-222916/1-A	Method Blank	Total Recoverable	Water	3005A	
nalysis Batch: 22295	59				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
680-74941-4	GWE-1D-1211	Total Recoverable	Water	6010B	22284
680-74941-5	GWE-1D-F(0.2)-1211	Dissolved	Water	6010B	22284
LCS 680-222847/2-A	Lab Control Sample	Total Recoverable	Water	6010B	22284
MB 680-222847/1-A	Method Blank	Total Recoverable	Water	6010B	22284
- .nalysis Batch: 22359	94				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
680-74986-1	GWE-3D-1211	Total Recoverable	Water	60108	22291
680-74988-2	GWE-3D-F(0.2)-1211	Dissolved	Water	6010B	22291
680-74988-4	GWE-2D-1211	Total Recoverable	Water	60108	22291
680-74988-5	GWE-2D-F(0.2)-1211	Dissolved	Water	60108	2229
LCS 680-222916/2-A	Lab Control Sample	Total Recoverable	Water	6010B	22291
MB 680-222916/1-A	Method Blank	Total Recoverable	Water	6010B	2229
eneral Chemistry	,				
nalysis Batch: 22281	7				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
680-74941-4	GWE-1D-1211	Total/NA	Water	353.2	
LCS 660-222617/15	Lab Control Sample	Total/NA	Water	353.2	
MB 880-222817/14	Method Blank	Total/NA	Water	353.2	
- inalysis Batch: 22283	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
680-74941-4	GWE-1D-1211	Total/NA	Water	310.1	_
LCS 680-222831/6	Lab Cartral Sample				
	Lab Control Sample	Total/NA	Water	310.1	
LCSD 680-222831/19	Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA	Water Water	310.1 310.1	
	Lab Control Sample Dup Method Blank				
MB 680-222831/5	Lab Control Sample Dup Method Blank	Total/NA	Water	310.1	
мв 680-222831/5 nalysis Batch: 22291	Lab Control Sample Dup Method Blank	Total/NA Total/NA	Water Water	310.1	Prep Batc
мВ 680-222831/5 nalysis Batch: 22291 Lab Sample ID	Lab Control Sample Dup Method Blank 4 Client Sample ID	Total/NA	Water Water Matrix	310.1 310.1 Method	Prep Bato
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1	Lab Control Sample Dup Method Blank	Total/NA Total/NA Prep Type Total/NA	Water Water	310.1 310.1 Method 353.2	Prep Bato
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 690-74988-4	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211	Total/NA Total/NA Prep Type	Water Water Matrix Water Water	310.1 310.1 Method 353.2 353.2	Prep Bate
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 690-74988-4 LCS 680-222914/15	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211	Total/NA Total/NA Prep Type Total/NA Total/NA	Water Water Matrix Water	310.1 310.1 Method 353.2	Prep Bato
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-222914/15 MB 680-222914/14	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA	Water Water Matrix Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2	Prep Bato
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-222914/15 MB 680-222914/14 nalysis Batch: 22300	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA	Water Water Matrix Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2	
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-222914/15 MB 680-222914/14 πalysis Batch: 22300 Lab Sample ID	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA	Water Water Matrix Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2	
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-222914/15 MB 680-222914/14 nalysis Batch: 22300 Lab Sample ID 680-74941-4	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank Client Sample ID	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Prep Type	Water Water Water Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2 Method	
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-222914/15 MB 680-222914/14 nalysis Batch: 22300 Lab Sample ID 680-74941-4 LCS 680-223003/2	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank 3 Client Sample ID GWE-1D-1211	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Prep Type Total/NA	Water Water Water Water Water Water Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2 Method 375.4	
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-222914/15 MB 680-222914/14 nalysis Batch: 22300 Lab Sample ID 680-74941-4 LCS 680-223003/2 MB 680-223003/1	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank Client Sample ID GWE-1D-1211 Lab Control Sample Method Blank	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2 Method 375.4 375.4	
MB 680-222831/5 .nalysis Batch: 22291 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-222914/15 MB 680-222914/14 nalysis Batch: 22300 Lab Sample ID 680-74941-4 LCS 680-223003/2 MB 680-223003/1	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank Client Sample ID GWE-1D-1211 Lab Control Sample Method Blank	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2 Method 375.4 375.4	Prep Batc
MB 680-222831/5 nalysis Batch: 22291 Lab Sample ID 680-74988-4 LCS 680-222914/15 MB 680-222914/14 nalysis Batch: 22300 Lab Sample ID 680-74941-4 LCS 680-223003/2 MB 680-223003/1 nalysis Batch: 22319 Lab Sample ID	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank 3 Client Sample ID GWE-1D-1211 Lab Control Sample Method Blank	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water Water Water Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2 Method 375.4 375.4	Prep Bato
MB 680-222831/5 .nalysis Batch: 22291 Lab Sample ID 680-74988-4 LCS 680-222914/15 MB 680-222914/14 nalysis Batch: 22300 Lab Sample ID 680-74941-4 LCS 680-223003/2 MB 680-223003/1 nalysis Batch: 22319 Lab Sample ID 680-74988-1	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank 3 Client Sample ID GWE-1D-1211 Lab Control Sample Method Blank 9 Client Sample ID	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2 Method 375.4 375.4	Prep Batc
680-74988-4 LCS 680-222914/15 MB 680-222914/14 Analysis Batch: 22300 Lab Sample ID 680-74941-4 LCS 680-223003/2 MB 680-223003/1	Lab Control Sample Dup Method Blank 4 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank 3 Client Sample ID GWE-1D-1211 Lab Control Sample Method Blank 99 Client Sample ID GWE-3D-1211	Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA	Matrix Water Water Water Water Water Water Water Matrix Water Water Water Water Water Water	310.1 310.1 Method 353.2 353.2 353.2 353.2 Method 375.4 375.4 Method 310.1	Prep Batc Prep Batc

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Analysis Batch: 2231	99 (Continued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batci
MB 680-223199/5	Method Blank	Total/NA	Water	310.1	
nalysis Batch: 2241	00				
Lab Sampte ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
680-74941-5	GWE-1D-F(0.2)-1211	Dissolved	Water	415.1	
LCS 680-224100/2	Lab Control Sample	Dissolved	Water	415.1	
MB 880-224100/1	Method Blank	Dissolved	Water	415.1	
лаlysis Batch: 2248:	25				
Lab Şample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
	GWE-1D-1211	Total/NA	Water	415.1	
680-74988-1	GWE-3D-1211	Total/NA	Water	415.1	
680-74988-4	GWE-2D-1211	Total/NA	Water	415.1	
LCS 680-224825/4	Lab Control Sample	Total/NA	Water	415.1	
MB 680-224825/2	Method Blank	Total/NA	Water	415.1	
nalysis Batch: 22484 - Lab Sample ID	46 Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-74988-2	GWE-3D-F(0.2)-1211	Dissolved	Water	415.1	
680-74988-5	GWE-2D-F(0.2)-1211	Dissolved	Water	415.1	
nalysis Batch: 2248	97				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
	GWE-3D-1211	T . 1814	Water	375.4	_
680-74988-1	GVVE-3D-1211	Total/NA			
	GWE-2D-1211	Total/NA Total/NA	Water	375.4	
680-74988-4			Water Water	375.4 375.4	
680-74988-4 LCS 680-224897/2	GWE-2D-1211	Total/NA			
680-74988-4 LCS 680-224897/2 MB 680-224897/1	GWE-2D-1211 Lab Control Sample Method Blank	Total/NA Total/NA	Water	375.4	
680-74988-4 LCS 680-224897/2 MB 680-224897/1 лаlysis Batch: 22498	GWE-2D-1211 Lab Control Sample Method Blank	Total/NA Total/NA	Water	375.4	Prep Batc
680-74988-4 LCS 680-224897/2 MB 680-224897/1 лаlysis Batch: 22498 Lab Sample ID	GWE-2D-1211 Lab Control Sample Method Blank	Total/NA Total/NA Total/NA	Water Water	375.4 375.4	Prep Batc
680-74988-4 LCS 680-224897/2 MB 680-224897/1 nalysis Batch: 22498 Lab Sample ID 680-74941-4	GWE-2D-1211 Lab Control Sample Method Blank Glient Sample ID	Total/NA Total/NA Total/NA Prep Type	Water Water Matrix	375.4 375.4 Method	Prep Batc
680-74988-4 LCS 680-224897/2 MB 680-224897/1 nalysis Batch: 22498 Lab Sample ID 680-74941-4 680-74988-1	GWE-2D-1211 Lab Control Sample Method Blank Glient Sample ID GWE-1D-1211	Total/NA Total/NA Total/NA Prep Type Total/NA	Water Water Matrix Water	375.4 375.4 Method 325.2	Prep Batc
680-74988-1 680-74988-4 LCS 680-224897/2 MB 680-224897/1 .nalysis Batch: 22498 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 880-224981/2	GWE-2D-1211 Lab Control Sample Method Blank Client Sample ID GWE-1D-1211 GWE-3D-1211	Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA	Water Water Matrix Water Water	375.4 375.4 Method 325.2 325.2	Prep Batci

JAN 0 5 2012
TestAmerica Savannah

Lab Chronicle

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-1D-1211

Date Collected: 12/05/11 14:35 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223910	12/16/11 00:58	MJC	TAL SAV
Total/NA	Analysis	RSK-175		1	223685	12/14/11 23:35	SMC	TAL SAV
Total Recoverable	Prep	3005A			222847	12/07/11 09:59	RAM	TAL SAV
Total Recoverable	Analysis	6010B		1	222959	12/08/11 05:15	всв	TAL SAV
Total/NA	Analysis	353.2		1	222817	12/06/11 15;51	JNC	TAL SAV
Total/NA	Analysis	310.1		1	222831	12/06/11 19:20	тн	TAL SAV
Total/NA	Analysis	375.4		10	223003	12/08/11 12:41	JR	TAL SAV
Total/NA	Analysis	415.1		1	224825	12/27/11 14:54	JR	TAL SAV
Total/NA	Analysis	325.2		1	224981	12/29/11 10:04	JR	TAL SAV

Client Sample ID: GWE-1D-F(0.2)-1211

Date Collected: 12/05/11 14:35

Date Received: 12/06/11 11:07

Lab Sample ID: 680-74941-5

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	3005A		- -	222847	12/07/11 09:59	RAM	TAL SAV
Dissolved	Analysis	6010B		1	222959	12/08/11 05:00	BCB	TAL SAV
Dissolved	Analysis	415.1		1	224100	12/15/11 18:27	JR	TAL SAV

Client Sample ID: GWE-2D-1211-EB

Date Collected: 12/05/11 15:00 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type Total/NA	Type Analysis	Method 8260B	Run	Factor 1	Number 223910	or Analyzed 12/15/11 23:51	Analyst WJC	TAL SAV

Client Sample ID: 4Q11 SUPP Trip Blank #2

Date Collected: 12/05/11 00:00

Date Received: 12/06/11 11:07

Lab Sample	D: 680-74941 <i>-</i> 7
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Matrix: Water

į		Batch	Batch		Dilution	Batch	Prepared		
i	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
į	Total/NA	Analysis	8260B		1	223910	12/15/11 22:21	MIC	TAL SAV

Client Sample ID: GWE-3D-1211

Date Collected: 12/06/11 09:10

Date Received: 12/07/11 12:30

Matrix: Water

-		Batch	Batch		Dilution	Batch	Prepared		
i	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
-	Total/NA	Analysis	8260B		10	224198	12/20/11 13:16	RB	TAL SAV
-	Tota!/NA	Analysis	RSK-175		1	223685	12/14/11 23:47	SMC	TAL SAV
1	Total Recoverable	Prep	3005A			222916	12/12/11 08:20	RAM	TAL SAV
1	Total Recoverable	Analysis	6010B		1	223594	12/14/11 04:29	BCB	TAL SAV
1	Total/NA	Analysis	353.2		1	222914	12/07/11 16:55	JNC	TAL SAV

TestAmerica Savannah

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

·TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-3D-1211 Lab Sample ID

Date Collected: 12/06/11 09:10 Date Received: 12/07/11 12:30 Lab Sample ID: 680-74988-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	310.1		1	223199	12/09/11 19:21	TH	TAL SAV
Total/NA	Analysis	415.1		1	224825	12/27/11 15:08	JR	TAL SAV
Total/NA	Analysis	375.4		5	224897	12/28/11 15:50	JR	TAL SAV
Total/NA	Analysis	325.2		1	224981	12/29/11 10:04	JR	TAL SAV

Client Sample ID: GWE-3D-F(0.2)-1211

Date Collected: 12/06/11 09:10

Lab Sample ID: 680-74988-2

Matrix: Water

Date Received: 12/07/11 12:30

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			222918	12/12/11 08:20	RAM	TAL SAV
Dissolved	Analysis	6010B		1	223594	12/14/11 04;34	BCB	TAL SAV
Dissolved	Analysis	415.1		1	224846	12/27/11 13:20	JR	TAL SAV

Lab Sample ID: 680-74988-3

Date Collected: 12/06/11 09:10

Client Sample ID: GWE-3D-1211-AD

Date Received: 12/07/11 12:30

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Type	Methad	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	82608	~~~	10	224198	12/20/11 13:45	R8	TAL SAV

Client Sample ID: GWE-2D-1211

Date Collected: 12/06/11 10:35

Date Received: 12/07/11 12:30

Lab Sample ID: 680-74988-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			224198	12/20/11 16:09	R8	TAL SAV
Total/NA	Analysis	RSK-175		1	223685	12/15/11 00:00	SMC	TAL SAV
Total Recoverable	Prep	3005A			222916	12/12/11 08:20	RAM	TAL SAV
Total Recoverable	Analysis	6010B		1	223594	12/14/11 04:39	BCB	TAL SAV
Total/NA	Analysis	353.2		1	222914	12/07/11 16:57	JNC	TAL SAV
Total/NA	Analysis	310.1		1	223199	12/09/11 19:31	TH	TAL SAV
Total/NA	Analysis	415.1		1	224825	12/27/11 15:22	JR	TAL SAV
Total/NA	Analysis	375.4		10	224897	12/28/11 15:54	JR	TAL SAV
Total/NA	Analysis	325.2		1	224981	12/29/11 10:04	JR	TAL SAV

Client Sample ID: GWE-2D-F(0.2)-1211

Date Collected: 12/06/11 10:35

Date Received: 12/07/11 12:30

Lab Sample ID: 680-74988-5

Matrix: Water

Ì	_	Batch	Batch		Dilution	Batch	Prepared		
ļ	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Dissolved	Prep	3005A			222916	12/12/11 08:20	RAM	TAL SAV
	Dissolved	Analysis	6010B		1	223594	12/14/11 04:54	BCB	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

Lab Sample ID: 680-74988-6

SDG: KPS070

Client Sample ID: GWE-2D-F(0.2)-1211

Lab Sample ID: 680-74988-5

Date Collected: 12/06/11 10:35

Matrix: Water

Matrix: Water

Date Received: 12/07/11 12:30

Batch Prep Type Туре Dissolved Analysis

Batch Method 415.1

Method

8260B

Run

Dilution Factor

Batch Number 224846

Prepared or Analyzed 12/27/11 13:20

Analyst JR

Lab TAL SAV

Client Sample ID: 4Q11 SUPP Trip Blank #3

Batch

Date Collected: 12/06/11 00:00 Date Received: 12/07/11 12:30

Batch

Prep Type Type Total/NA Analysis

Dilution Batch Run Number Factor 223436

Prepared or Analyzed 12/12/11 22:53

Analyst AJMC

Lab TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Savannah

\$102 LaRoche Avenue

Chain of Custody Record



Savannah GA 31404

phone 912.354.7858 fax 912.352.0165						_																TestAmerica Laboratories, Inc.
Client Contact		anager: Da				—						Nurte	n	_	Date:		<u>2</u>	15/	<u>//</u>	_		COC No:
URS Corporation		314) 743-41:				Lal	b Co	ntac	<u>t: Li</u>	dya (Guliz	ia		_	Carr	ier:	-E	ed.	EX			of a COCs
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(314) 429-0462 FAX] 🛎		weeks			, i				읉			₹			-		ΙĮ			i	SDG No.
Project Name: 4Q11 Supplemental GW Sampling] 🗆	1	week			Ŋ.		<u> </u>		Suifate by 375.4 175	2		ã			1		ll	- 1			ĺ
Site: Solutia WG Krummrich Facility	」 □	:	2 days					8	a	3 3			립			-		ll		ļ		ĺ
PO#			day				8260	Total Fe/Mn by 60103	Alk/CO2 by 310.1	Chloride by 325.2/	Nitrate by 353.2	12	Dissolved Fe/Mn by 60103	5.3					1		1	
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	Sample	Sample	Sample]	# of	Filtered	VOCs by	를	ğΠ	5 5	Ĭ	ତ୍ରୀ	fos	Š		1		ll				1
Sample Identification /	Date	Time	Турс	Matrix	Cont.		2	Į.	₹	<u> </u>	ž	18	ă	8				Ш			Ц.	Sample Specific Notes:
GWE-1D BILL	12/5/11	1435	G	Water	12	П	3	1	$\overline{}$		3 2	1						П		Т		
GWE-1D -1311 GWE-1D -F(0.2)-1311 GWE-2D-1211-EB	17	1435	G	Water	2	x			T		Ī	\Box	1	1								
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4Q11 SUPP Trip Blank # 2	12/5/11			Water	2	11	2	f		T		1	П					П		\top		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=Na		ier		<u>'L</u>		_	2	1	4	1 1	1 5	3,1	2	4	2	+	+	┼╌┼	+	╅╴	╁	
Possible Hazard Identification																ssed	if sa	mple	s are	reta	inec	longer than 1 month)
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Special Instructions/QC Requirements & Comments: Level 4 E	ata Packa	ge										_										680-74941
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Chain of Custody Record

TestAmerica Test America Test THE LEADER IN ENVIRONMENTAL TESTING

Savannah

5102 LaRoche Avenue

phone 912,354,7858 fax 912,352,0165

Savannah, GA 31404

21562709.00008 TestAmerica Laboratories, Inc. 1000 48187516 1.4 2 680-74988 Sample Specific Notes: 758 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Helum To Clieni

Months ဘတ Date/Time: Date/Time: Date/Time: // ٩ Dale/Time: COC No: Company Company 12/6/1 Company: Carrier: Date: 2 | 1 | 4 | 1 | 1 | 1 | 3,1 | 2 | 4 | 2 Received by Lange All Dissolved Pe/Min by 6010B Site Contact: Nathan McNurlen Lab Contact: Lidya Gulizia 6 Date/Time: Received by: New Deferration of the Communication of the Comm 3 Methane by RSK 175 հչ 3Հ5.2√Sulfate by 375.4 <u>~</u> Cotal Fe/Mn by 6010B m ᠕ 3 2 AOC2 PA 8500 Ś 3 <u>۾</u> ۾ 7 2 ~ 3 ω ч Date/Time! Calendar (C) or Work Days (W) Matrix Water Water Water Ž TAT if different from Below Slandard 3 5 Analysis Turnaround Time Unknown ડે Project Manager: Dave Palmer Sample Type Ġ Ö ৩ O 2 days 2 0 1 week 1 day Fel/Fax: (314) 743-4154 1035 010 1035 URS Sample 0110 1035 1035 0180 11/9/21 Poison B Compuny: Special Instructions/QC Requirements & Comments: Level 4 Data Package 11/9/c(Company: Sample Date Сотрапу: Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; SWE-20- F(0.2)-1211 Skin Irritant GWE-30-1211-AD GNE-BD-1151-NSD 6WE-2D-1211-MS -F(0.2)-13,11 Project Name: 4Q11 Supplemental GW Sampling 1911 5WE-3D-1211 4Q11 SUPP Trip Blank # 3 1001 Highlands Plaza Drive West, Suite 300 Sample Identification Phone Client Contact Flammable 6WE-3D Site: Solutia WG Krummrich Facility 6WE-3D Relinquished by: Possible Hazard Identification Relinquished by: St. Louis, MO 63110 Non-Hazard URS Corporation (314) 429-0100 (314) 429-0462 å

Login Sample Receipt Checklist

Client: Solutia Inc.

Job Number: 680-74941-2

SDG Number: KPS070

OBS Number, KI SOFT

Login Number: 74941 List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 and 1.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vot. for all requested analyses, incl. any requested MS/MSDs	Тпие	5D MS/MSD cancelled by client; will submit on alt location.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Solutia Inc.

Job Number: 680-74941-2

List Source: TestAmerica Savannah

SDG Number: KPS070

Login Number: 74988

List Number: 1

Creator: Conner, Keaton

oreator. Comier, recator		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/limes are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

TestAmerica Savannah A2LA DO ELAP TestAmerica Savannah A2LA ISOIEC 17025 TestAmerica Savannah Alabama State Program 4 TestAmerica Savannah Arkansas Arkansas DOH 6 TestAmerica Savannah Arkansas State Program 6 TestAmerica Savannah Colorado State Program 8 TestAmerica Savannah Cobrado State Program 1 TestAmerica Savannah Colorado State Program 1 TestAmerica Savannah Delaware State Program 1 TestAmerica Savannah Georgia Georgia EPD 4 TestAmerica Savannah Georgia State Program 9 TestAmerica Savannah Guam State Program 9 TestAmerica Savannah Indiana State Program 9 TestAmerica Savannah Indiana State Program 7 TestAmerica Savannah Indiana State Program 7 TestAmerica Savannah Indiana State Program 7	Certification ID
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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica Savannah